

MHC-881/D7/G88

SERVICE MANUAL

US Model
Canadian Model
MHC-881/D7

AEP Model
UK Model
MHC-881

E Model
Australian Model
Tourist Model
MHC-G88

- MHC-881/D7/G88 are composed of following models.
As for the service manual, it is issued for each component model,
then, please refer to it.

COMPONENTS MODEL NAME FOR THIS SYSTEM

SET	CD PLAYER/TUNER/AMP	FRONT SPEAKER	SURROUND SPEAKER
MHC-881	HCD-H881	SS-H991	SS-SR10P (Canadian model)
MHC-G88			SS-SR991 (EXCEPT Canadian model)
MHC-D7	HCD-H881D		

SPECIFICATIONS

Supplied accessories

AM loop antenna (1)
Remote Commander
 RM-SC100F (1)
 (HCD-H881 : US, Canadian model)
 RM-SD50 (1)
 (EXCEPT HCD-H881 : US, Canadian model)
Sony SUM-3 (NS) batteries (2)
FM lead antenna (1)
Speaker cords (4)

General

Power requirements
 US, Canadian, Mexican model : 120V AC, 60Hz
 AEP, German, Italian, East European,
 CIS model : 220-230V AC, 50/60Hz
 UK, Australian model : 240V AC, 50/60Hz
 E, Saudi Arabia, Singapore, Argentine, Hong Kong,
 Indonesia, Taiwan, Tourist model : 110-120/220-240V AC,
 50/60Hz
 Malaysia, Thailand model : 220-240V AC, 50/60Hz

Power consumption

US model : 275W
Canadian model : 300VA
AEP, German, Italian,
CIS, UK, East European model : 145W
Other model : 190W

Dimensions

Approx. 280 × 325 × 360mm
(11 1/8 × 12 7/8 × 14 1/4 in) (w/h/d)

Mass

US, Canadian model
 Approx. 10kg (22 lb)
AEP, UK, German, Italian, East European, CIS model
 Approx. 9.5kg (20 lb 15 oz)
Other model
 Approx. 9.0kg (19 lb 14 oz)
incl. projecting parts and controls

Design and specifications are subject to change without notice.

MINI HI-FI COMPONENT SYSTEM
SONY®

PARTS LIST

NOTE :

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• Abbreviation

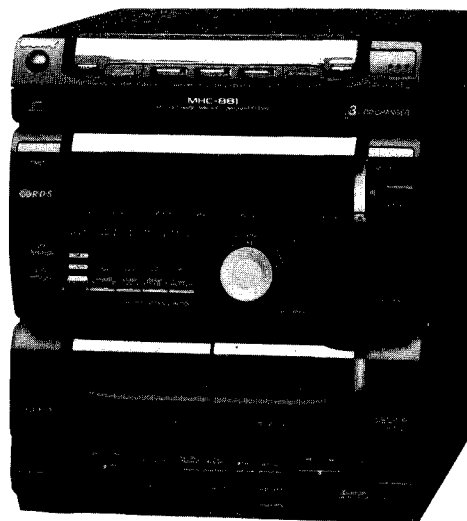
AR : Argentine	G : German	MX : Mexican
AUS : Australian	HK : Hong Kong	MY : Malaysia
CND : Canadian	IA : Indonesia	SP : Singapore
EA : Saudi Arabia	IT : Italian	TH : Thailand
EE : East European	JEW : Tourist	TW : Taiwan

Part No.	Description	Remark
ACCESSORIES & PACKING MATERIALS *****		
1-473-533-11	REMOTE COMMANDER(RM-SC100F) (MHC-881:US, CND)	
1-501-374-11	ANTENNA, LOOP	*
1-501-594-11	ANTENNA(FM) (EXCEPT US, CND)	
1-501-659-11	ANTENNA(FM) (US, CND)	
1-769-317-11	CORD, SPEAKER (SS-H991)	
1-769-433-11	CORD, SPEAKER (SS-SR991)	
3-810-535-11	MANUAL, INSTRUCTION (TH) (THAI)	
3-810-669-11	MANUAL, INSTRUCTION (UK) (ENGLISH)	
3-810-669-21	MANUAL, INSTRUCTION (AEP) (ENGLISH, FRENCH, SPANISH, PORTUGUESE)	
3-810-669-31	MANUAL, INSTRUCTION (G) (GERMAN)	
3-810-669-41	MANUAL, INSTRUCTION (AEP, IT) (GERMAN, DUTCH, ITALIAN)	
3-810-669-51	MANUAL, INSTRUCTION (EE, CIS) (ENGLISH, PORTUGUESE)	
3-810-669-61	MANUAL, INSTRUCTION (AEP) (GERMAN, FRENCH, ITALIAN, SWEDISH)	
3-810-938-71	MANUAL, INSTRUCTION (MHC-D7:CND) (FRENCH)	
3-810-963-11	MANUAL, INSTRUCTION (MHC-881:US/CND) (ENGLISH)	
3-810-963-21	MANUAL, INSTRUCTION (MHC-881:CND) (FRENCH)	
3-810-963-31	MANUAL, INSTRUCTION (E, AU, AR, MX, EA, MY, SP, HK, TW, IA) (ENGLISH, FRENCH, SPANISH, CHINESE)	

Part No.	Description	Remark
3-810-963-41	MANUAL, INSTRUCTION (E3, EA) (ARABIC)	
3-810-963-51	MANUAL, INSTRUCTION (JEW) (ENGLISH, PORTUGUESE, RUSSIAN)	
3-810-963-61	MANUAL, INSTRUCTION (MHC-D7:US) (ENGLISH)	
3-848-514-01	BAG, PROTECTION(SS-SR991)	
4-976-969-01	CUSHION(SS-SR10P)	
4-979-371-01	COVER, BATTERY (FOR RM-SD50) (EXCEPT MHC-881:US, CND)	
4-980-147-01	INDIVIDUAL CARTON(TH)	*
4-980-428-01	CUSHION(FRONT) (HCD)	*
4-980-429-01	CUSHION(REAR) (HCD)	*
4-980-430-01	INDIVIDUAL CARTON(MHC-881:CND)	*
4-980-431-01	INDIVIDUAL CARTON (MHC-881:EXCEPT US, CND)	*
4-980-432-01	INDIVIDUAL CARTON (MHC-G88:EXCEPT EA, JEW, AUS)	*
4-980-433-01	INDIVIDUAL CARTON(EA, JEW)	*
4-980-434-01	INDIVIDUAL CARTON(AUS)	*
4-980-957-01	CUSHION (SS-SR991)	*
4-981-327-01	CUSHION (SS-H991)	*
4-981-643-01	COVER, BATTERY(FOR RM-SC100F) (MHC-881:US, CND)	*
4-982-001-01	INDIVIDUAL CARTON(MHC-D7)	*
4-982-366-01	INDIVIDUAL CARTON(MHC-D7:CND)	*
4-983-564-01	INDIVIDUAL CARTON(MHC-881:US)	*
4-983-565-01	INDIVIDUAL CARTON(MHC-D7:US)	*
8-917-537-90	REMOTE COMMANDER(RM-SD50) (EXCEPT MHC-881:US, CND)	

HCD-H881/H881D

SERVICE MANUAL



US Model
Canadian Model
 HCD-H881/H881D
AEP Model
UK Model
E Model
Australian Model
Tourist Model
 HCD-H881

- HCD-H881/H881D is the tuner, deck, CD and amplifier section in MHC-811, MHC-D7 and MHC-G88.

Photo : HCD-H881

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

CD Section	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	CDM38-5BD19
	Base Unit Name	BU-5BD19
Tape deck Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	TCM-220WR2E

SPECIFICATIONS

for the U.S. model
AUDIO POWER SPECIFICATIONS
POWER OUTPUT AND TOTAL HARMONIC DISTORTION :
 with 8 ohm loads, both channels driven,
 from 40 – 20kHz ; rated 100 watts per
 channel minimum RMS power, with no
 more than 0.9 % total harmonic distortion
 from 250 milliwatts to rated output.

CD player section

System Compact disc and digital audio system
Laser Semiconductor laser
Wavelength 780 – 790 nm
Frequency response 2 Hz – 20 kHz (±0.5 dB)
Signal-to-noise ratio More than 90 dB
Dynamic range More than 90 dB
CD DIGITAL OUT OPTICAL
 (Square optical connector jack, rear panel)
Wavelength 600 nm
Output Level –18 dBm

Tuner section

FM stereo, FM / AM superheterodyne tuner

FM tuner section

Tuning range US, Canadian model :
 87.5 – 108MHz (100kHz step)
 EXCEPT US, Canadian,
 East European model :
 87.5 – 108MHz (50kHz step)
 East European model :
 FM 1 : 65 – 74MHz (10kHz step)
 FM 2 : 87.5 – 108MHz (50kHz step)

Antenna FM lead antenna
Antenna terminals 75 ohm unbalanced
Intermediate frequency 10.7 MHz

AM tuner section

Tuning range US, Canadian model :
 531 – 1,710kHz (with the tuning interval set at 9kHz)
 530 – 1,710kHz (with the tuning interval set at 10kHz)
 AEP, UK, East European, German model :
 MW : 531 – 1,602kHz (with the tuning interval set at 9kHz step)
 LW : 153 – 279kHz
 Italian model :
 MW : 522 – 1,611kHz (with the tuning interval set at 9kHz step)
 LW : 153 – 279kHz
 E, Saudi Arabia, Argentine, Hong Kong, Malaysia, Taiwan, Singapore, Australian, Tourist, Indonesia, CIS, Mexican, Thailand model :
 531 – 1,602 kHz (with the tuning interval set at 9 kHz)
 530 – 1,710 kHz
 (with the tuning interval set at 10 kHz)
 SW : 5.95 – 17.90MHz
 (E3, Saudi Arabia, Hong Kong, Tourist, Malaysia, Singapore, Indonesia, CIS model)

Antenna AM loop antenna,
 External antenna terminals
Intermediate frequency 450 kHz

Amplifier section

AEP, UK, German, Italian, East European, CIS model :
 DIN 50W+50W (8 ohm, 1kHz, 0.8% THD)
 RMS 60W+60W (8 ohm, 1kHz, 10% THD)
 MUSIC power output 105W+105W (8 ohm, 1kHz, 10% THD)
 US, Canadian model :
 FTC 100W+100W (8 ohm, 40 – 20kHz, 0.9% THD)
 Continuous RMS power output 120W+120W (8 ohm, 1kHz, 5% THD)
 Other model
Peak music power output 1200 W
Continuous RMS power output 80 W + 80 W (8 ohm at 1 kHz, 5 % THD)
Inputs
 VIDEO/MD IN (phono jacks):
 voltage 450 mV,
 impedance 47 kilohm
 MIX MIC (phone jacks):
 sensitivity 1 mV,
 impedance 10 kilohm

– Continued on page 2 –



MINI HI-FI COMPONENT SYSTEM
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Outputs

- VIDEO/MD OUT (phono jacks):
voltage 250 mV
impedance 1 kilohm
- PHONES (stereo phone jack):
accepts headphones of
8 ohm or more
- SPEAKER:
accepts impedance of 8 to
16 ohm
- SURROUND/SUB SPEAKER:
accepts impedance of
16 ohm
- SUPER WOOFER:
Voltage 1 V, impedance
1 kilohms

Tape player section

Recording system

4-track 2-channel stereo

Frequency response

(DOLBY NR OFF)
40 – 13,000 Hz (± 3 dB),
using Sony TYPE I cassette
40 – 14,000 Hz (± 3 dB),
using Sony TYPE II cassette

Wow and flutter

$\pm 0.15\%$ W. Peak (IEC)
0.1% W. RMS (NAB)
 $\pm 0.2\%$ W. Peak (DIN)

Supplied accessories

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Remote RM-SC100F (1) (HCD-H881 : US, Canadian model)
Remote RM-SD50 (1) (EXCEPT HCD-H881 : US, Canadian model)
Sony SUM-3 (NS) batteries (2)
FM lead antenna (1)
Speaker cords (4)

General

Power requirements

Destination	Power requirements	Power consumption
US model	120V AC, 60Hz	275W
Canadian model		300VA
Mexican model		190W
Malaysia, Thailand model	220 – 240V AC, 50/60Hz	190W
AEP, German, Italian, CIS, East European model	220 – 230V AC, 50/60Hz	145W
UK model	240V AC, 50/60Hz	145W
Australian model		190W
E, Saudi Arabia, Hong Kong, Tourist, Singapore, Argentine, Indonesia, Taiwan model	110 – 120V/220V – 240V AC, 50/60Hz Adjustable with the Voltage Selector	190W

Dimensions Approx. 280 x 325 x 360 mm
(11 ¹/₈ x 12 ⁷/₈ x 14 ¹/₄ in)
(w/h/d)
incl. projecting parts and controls

Mass US, Canadian model
Approx. 10kg (22 lb)
AEP, UK, German, Italian, East European, CIS model
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Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

CAUTION ; INVISIBLE LASER RADIATION WHEN OPEN.
AVOID EXPOSURE TO BEAM
ADVARSEL ; USYNLIG LASERSTRÅLING VED ÅBNING NÅR
Sikkerhedsafbrydere er ude af funktion.
UNNGÅ UDSÆTTELSE FOR STRÅLING.
VARO! ; AVATTAESSA JA SUOJALUKITUS OHITETTAESSA
OLET ALTTIINA LASERSÄTELYLLE.
VARNING ; LASERSTRÅLING NÅR DENNA DEL ÄR ÖPPNAD
OCH SPARREN ÄR URÖPPAD
ADVARSEL ; USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES
UNNGÅ EKSPONERING FOR STRÅLEN

This caution label is located inside the unit.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

SAFETY-RELATED COMPONENT WARNING!!

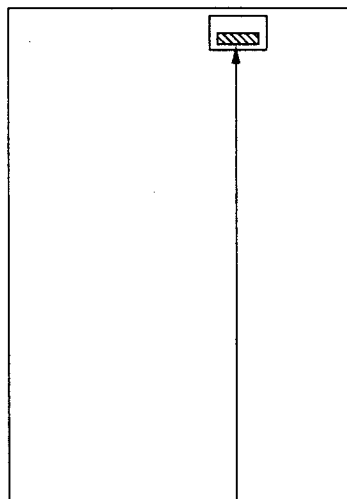
COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

MODEL IDENTIFICATION

— BACK PANEL —



made in Malaysia

- 4-978-749-0 ☐ : US model (H881)
- 4-978-749-1 ☐ : Canadian model (H881)
- 4-979-269-0 ☐ : US model (H881D)
- 4-979-269-1 ☐ : Canadian model (H881D)
- 4-978-749-2 ☐ : AEP model
- 4-978-749-3 ☐ : UK model
- 4-978-749-4 ☐ : German model
- 4-978-749-5 ☐ : Italian model
- 4-978-749-6 ☐ : East European model
- 4-978-749-7 ☐ : CIS model
- 4-979-268-0 ☐ : E model
- 4-979-268-1 ☐ : Saudi Arabia, Taiwan model
- 4-979-268-2 ☐ : Australian model
- 4-978-268-3 ☐ : Mexican model
- 4-979-268-4 ☐ : Malaysia model
- 4-979-268-5 ☐ : Singapore model
- 4-979-268-6 ☐ : Argentine model
- 4-979-268-7 ☐ : Hong Kong model
- 4-979-268-8 ☐ : Tourist model

made in Indonesia

- 4-979-268-9 ☐ : Thailand, Saudi Arabia model

made in Thailand

- 4-979-277-0 ☐ : US model (H881)
- 4-979-277-1 ☐ : Canadian model (H881)
- 4-979-279-0 ☐ : US model (H881D)
- 4-979-279-1 ☐ : Canadian model (H881D)
- 4-979-277-2 ☐ : AEP model
- 4-979-277-3 ☐ : UK model
- 4-979-277-4 ☐ : German model
- 4-979-277-5 ☐ : Italian model
- 4-979-277-6 ☐ : East European model
- 4-979-277-7 ☐ : CIS model
- 4-979-278-0 ☐ : E, Indonesia model
- 4-979-278-2 ☐ : Australian model
- 4-979-278-3 ☐ : Mexican model
- 4-979-278-5 ☐ : Singapore model
- 4-979-278-6 ☐ : Argentine model
- 4-979-278-7 ☐ : Hong Kong model

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

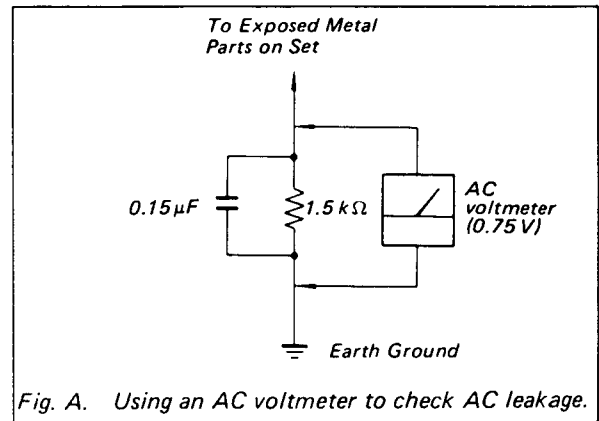


Fig. A. Using an AC voltmeter to check AC leakage.

SECTION 1 SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

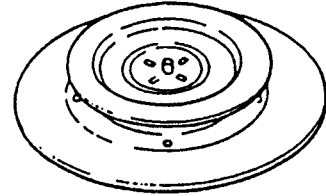
NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 30cm away from the objective lens.

CHUCK PLATE JIG ON REPAIRING

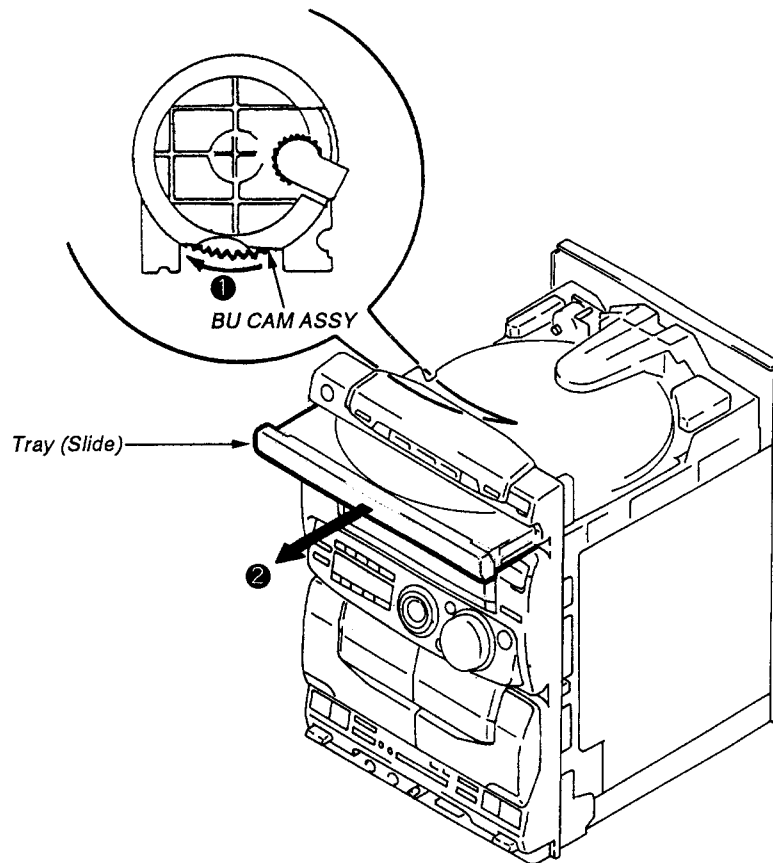
On repairing CD section, playing a disc without the CD lid, use Chuck Plate Jig.

- Code number of Chuck Plate Jig : X-4918-255-1



● Tray (Slide) getting out procedure on the power supply is OFF

Rotate the BU CAM assembly in the direction of the arrow and pull out the slide.



SECTION 2 GENERAL

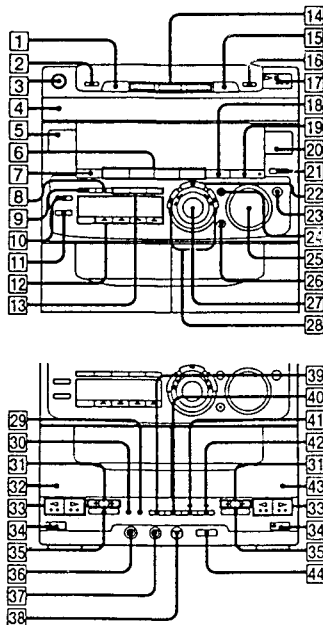
This section is extracted from instruction manual.

Index to Parts and Controls

Refer to the pages indicated in parentheses for details on how to use the controls. Controls with an asterisk have indicators on themselves.

Front Panel

Amplifier/Tuner section

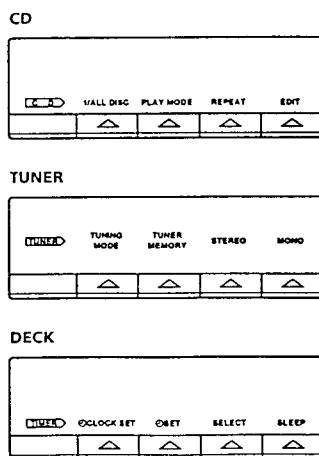


- 1 POWER switch
- 2 LOOP button
- 3 DISC SKIP button
- 4 Disc tray
- 5 TIMER button
- 6 MENU 1 - 4 button
- 7 DISPLAY/DEMO button
- 8 CLIP ERASE button
- 9 CLIP PLAY button
- 10 DSP button
- 11 DIGITAL ECHO button
- 12 MULTI FUNCTION CONTROL button
- 13 CLIP A - C button
- 14 DISC 1 - 3 button
- 15 OPEN/CLOSE EX-CHANGE button
- 16 >|| (play / pause) button*
- 17 ■ (stop) button
- 18 P FILE button
- 19 TUNER/BAND button*
- 20 EFFECT ON/OFF button*
- 21 FUNCTION button
- 22 ENTER/NEXT button
- 23 DBFB button
- 24 GROOVE button
- 25 VOLUME knob
- 26 SONIC FORMATION button
- 27 JOG dial
- 28 FREQUENCY +/- buttons
- 29 Deck A
- 30 DIRECTION button
- 31 DOLBY NR button
- 32 <</>> (fast forward/rewind) button
- 33 >|| (play) button*
- 34 ■ (stop) button
- 35 EJECT button
- 36 PHONES jack
- 37 MIX MIC jack
- 38 Deck B

- 39 HIGH SPEED DUBBING button
- 40 CD SYNCHRO button
- 41 ● REC button
- 42 || PAUSE button
- 43 KARAOKE PON/MPX button
- 44 MIC LEVEL knob

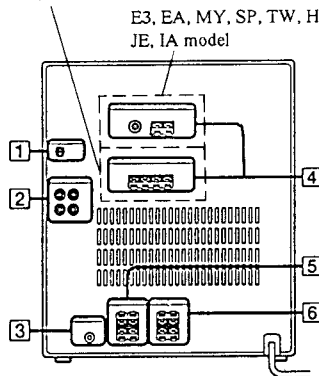
MULTI FUNCTION CONTROL buttons

The button you can operate the CD player, tuner and the tape player light up.



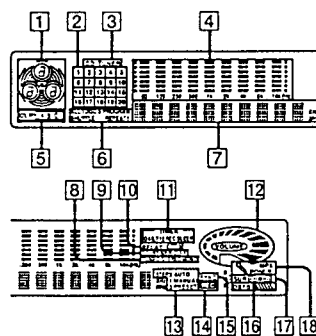
Rear panel

EXCEPT E3, EA, MY, SP, TW, HK, JE, IA model



- 1 CD DIGITAL OPTICAL OUT jack
- 2 VIDEO/MD in/out jacks
- 3 a super woofer jack (MHC-D7 only)
- 4 ANTENNA terminals
- 5 SURROUND SPEAKER L/R jacks
- 6 SPEAKER jacks

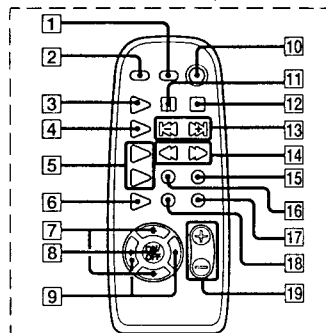
Display Window



- 1 Disc tray indicator
- 2 Music calendar
- 3 CD/TUNER indicator
- 4 Graphic Equalizer indicator
- 5 CLIP indicators
- 6 CD playback indicators
- 7 Multi display
- 8 Tuning indicator
- 9 DOLBY NR indicator
- 10 Timer indicators
- 11 Direction mode indicators
- 12 VOLUME indicators
- 13 Tuner indicators
- 14 SYNC REC indicator
- 15 DBFB indicator
- 16 SUR 1/2 indicators
- 17 Karaoke PON/MPX indicators

Remote

EXCEPT HCD-H881 : US, Canadian model

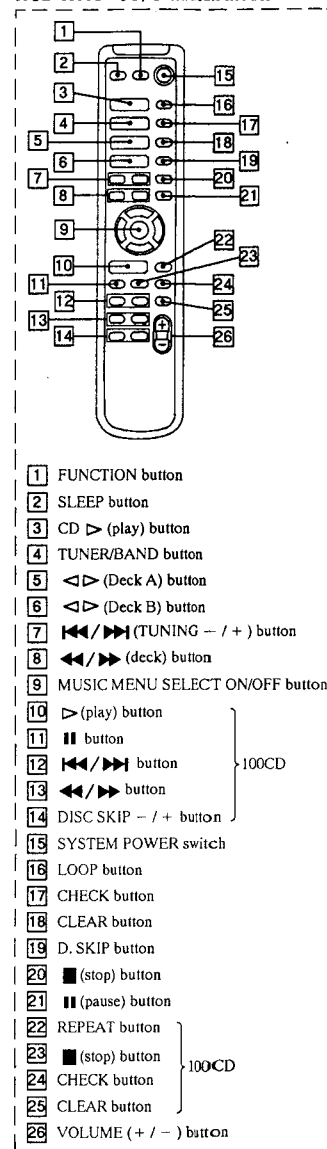


- 1 SLEEP button
- 2 LOOP button
- 3 CD > button
- 4 TUNER/BAND button
- 5 DECK A > / DECK B > button
- 6 FUNCTION button
- 7 < / > button
- 8 MUSIC MENU ON/OFF button
- 9 < / > button
- 10 POWER switch
- 11 || (pause) button
- 12 ■ (stop) button
- 13 < / > AMS* button
- 14 < / > (rewind/fast forward) button
- 15 EDIT button
- 16 CHECK button
- 17 DISC SKIP button
- 18 CLEAR button
- 19 VOL (+/-) button

* AMS=Auto Music Sensor

Remote

HCD-H881 : US, Canadian model



- 1 FUNCTION button
- 2 SLEEP button
- 3 CD > (play) button
- 4 TUNER/BAND button
- 5 <> (Deck A) button
- 6 <> (Deck B) button
- 7 <</>> (TUNING - / +) button
- 8 <</>> (deck) button
- 9 MUSIC MENU SELECT ON/OFF button
- 10 > (play) button
- 11 || button
- 12 <</>> button
- 13 <</>> button
- 14 DISC SKIP - / + button
- 15 SYSTEM POWER switch
- 16 LOOP button
- 17 CHECK button
- 18 CLEAR button
- 19 D. SKIP button
- 20 ■ (stop) button
- 21 || (pause) button
- 22 REPEAT button
- 23 ■ (stop) button
- 24 CHECK button
- 25 CLEAR button
- 26 VOLUME (+/-) button

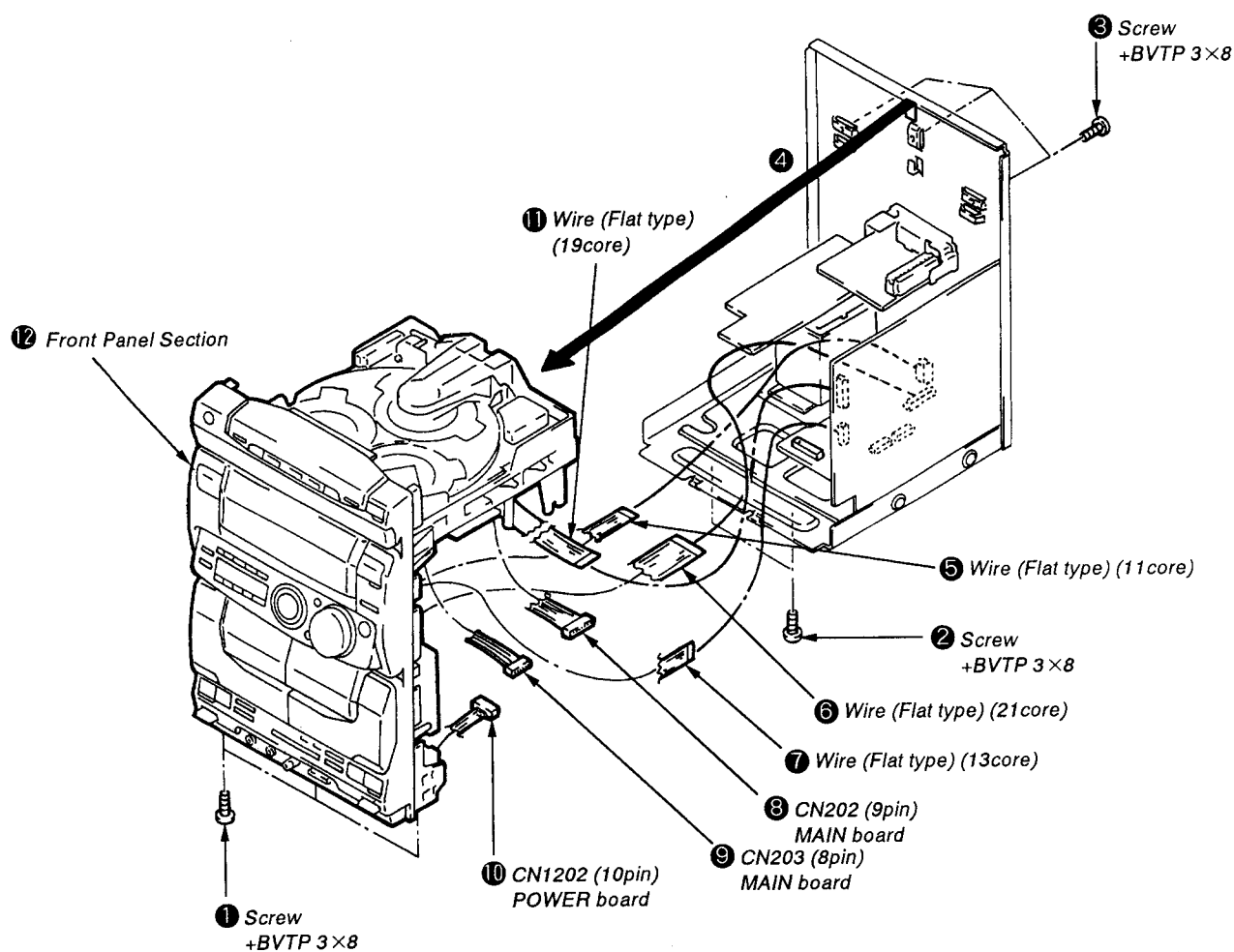
• Abbreviation

- E3 : Tuner sections S W BAND exist.
- EA : Saudi Arabia
- MY : Malaysia
- SP : Singapore
- TH : Thailand
- HK : Hong Kong
- JE : Tourist
- IA : Indonesia
- TW : Taiwan

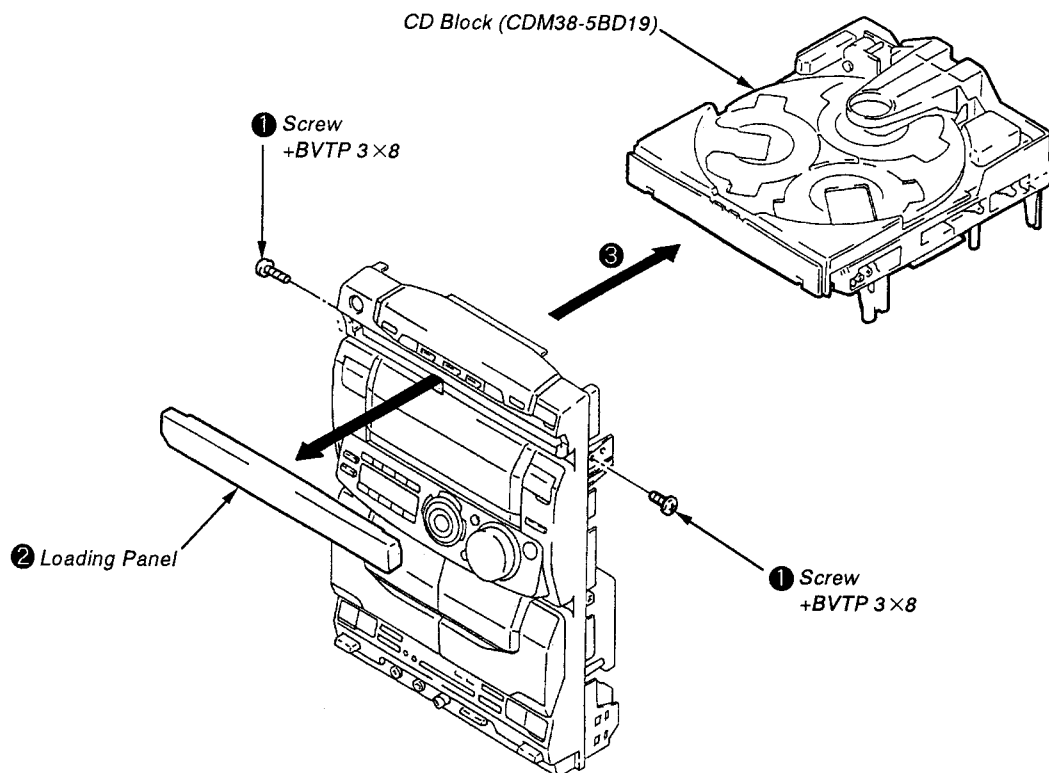
SECTION 3 DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

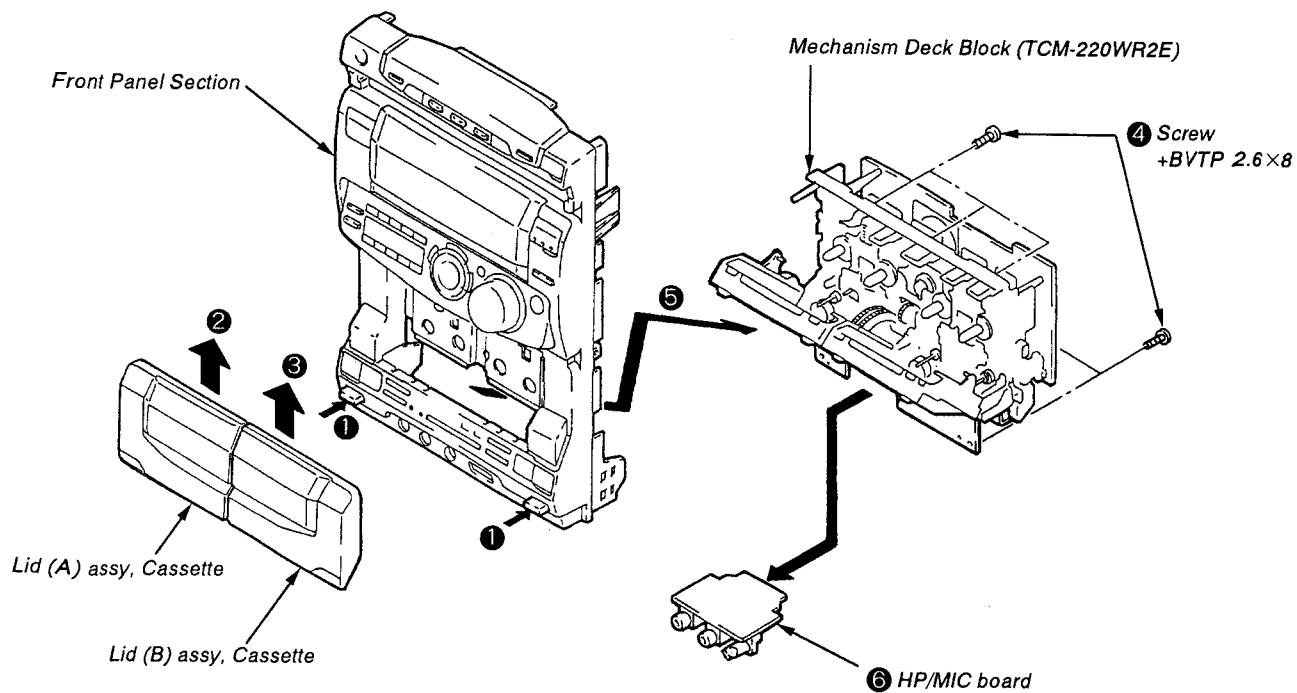
3-1. FRONT PANEL REMOVAL



3-2. CD BLOCK REMOVAL



3-3. LID (A)/(B) ASSY, CASSETTE, MECHANISM DECK BLOCK AND HP/MIC BOARD REMOVAL



SECTION 4 ADJUSTMENTS

4-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :

record/playback head	pinch roller
erase head	rubber belts
capstan	
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

• Torque Measurement

Mode	Torque Meter	Meter Reading
Forward	CQ-102C	36 to 61g•cm (0.50 – 0.84 oz•inch)
Forward Back Tension	CQ-102C	2 to 6g•cm (0.028 – 0.083 oz•inch)
Reverse	CQ-102RC	36 to 61g•cm (0.50 – 0.84 oz•inch)
Reverse Back Tension	CQ-102RC	2 to 6g•cm (0.028 – 0.083 oz•inch)
FF, REW	CQ-201B	61 to 143g•cm (0.85 – 1.99 oz•inch)

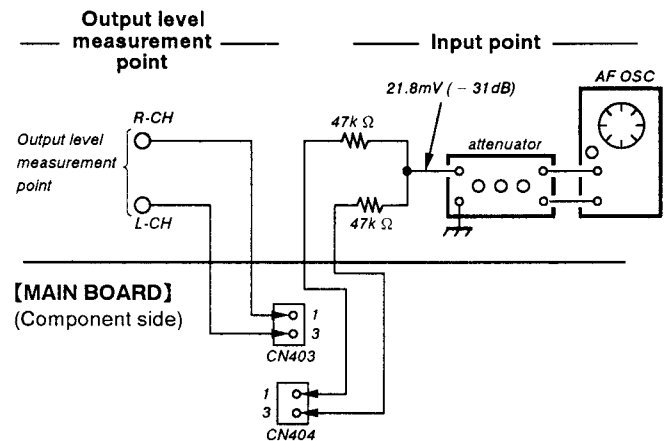
• Tape Tension Measurement

Mode	Tension Meter	Meter Reading
Forward	CQ-403A	more than 100g (3.53 oz)
Reverse	CQ-403R	more than 100g (3.53 oz)

4-2. ELECTRICAL ADJUSTMENTS

DECK SECTION

1. The adjustment should be performed in the publication.
(Be sure to make playback adjustment at first.)
2. The adjustment and measurement should be performed for both L-CH and R-CH.
 - Switch position
 - DOLBY NR switch : OFF
 - FUNCTION button : OFF
 - EFFECT switch : OFF
 - DBFB switch : OFF
3. Deck section electrical adjustments are made in test mode by pressing DISPLAY/DEMO, TUNER/BAND, MENU1 at the same time.
4. Input point and output level measurement point.



• Test Tape

Tape	Contents	Use
P-4-A100	10kHz, -10dB	Head Azimuth Adjustment
P-4-L300	315Hz, 0dB	Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

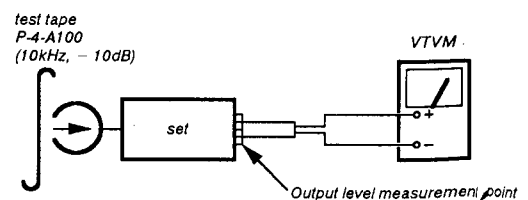
0 dB=0.775V

Record/Playback Head Azimuth Adjustment

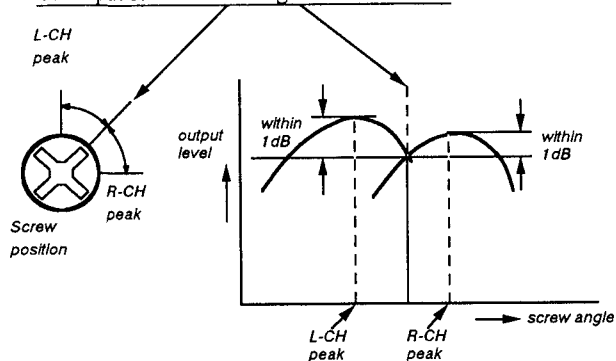
DECK A **DECD B**

Procedure :

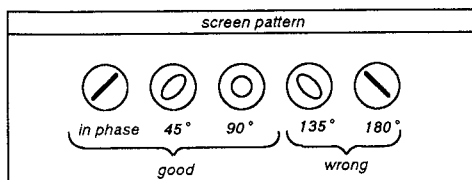
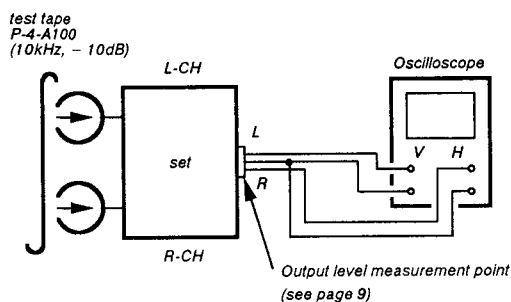
1. Forward Playback mode
- Reverse Playback mode



- Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1dB.



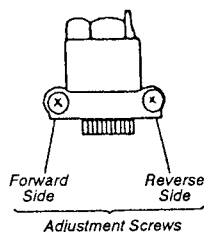
3. Playback Mode



- Change the review playback mode and repeat the steps 1 to 3.
- After the adjustment, lock the adjustment screw with suitable locking compound.

Adjustment Location :

— record/playback head (Deck A and B) —

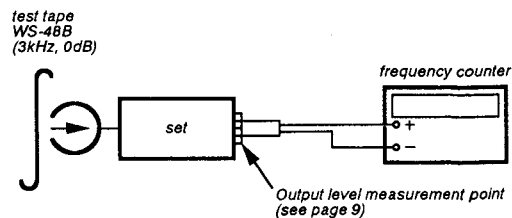


Tape Speed Adjustment **DECK A** **DECK B**

Procedure :

- Perform high speed adjustment before normal speed adjustment.

Mode : Playback



Speed	Deck	Adjustment	Frequency counter
* High	A	RV652	5,970 to 6,030Hz
	B	RV652	
Normal	A	RV651	2,940 to 3,090Hz
	B	RV651	

* Continue to press HIGH SPEED DUBBING switch (S545) in playback mode : High speed playback.

Frequency difference between the beginning and the end of the tape should be within $\pm 3\%$.

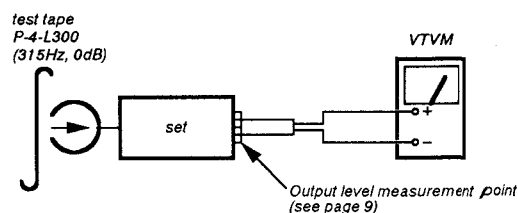
Frequency difference between deck A and deck B the beginning of the tape should be within 1.5%.

Adjustment Location : AUDIO board.
(see page 11)

Playback Level Adjustment **DECK A** **DECK B**

Procedure :

— FWD Playback Mode —



Deck A is RV311(L-CH) and RV411(R-CH), deck B is RV301 (L-CH) and RV401 (R-CH) so that adjustment within adjustment level as follows.

Adjustment Level :

LINE OUT level : $-7.5 \pm 0.5\text{dB}$ (0.31 to 0.35V)

Level Difference between Channels : within 0.5dB

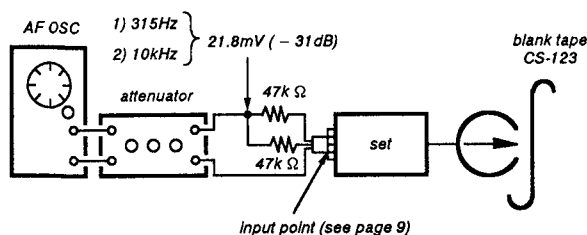
Confirm the OUTPUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location : AUDIO board.
(see page 11)

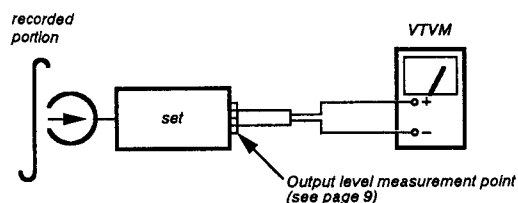
Record Bias Adjustment **DECK B**

Procedure :

1. Record mode



2. Playback mode



3. Confirm playback the signal recorded in step 1 become adjustment level as follows.
4. If these levels do not adjustment level, adjust the RV341 (L-CH) and RV441 (R-CH) to repeat step 1 and 4.

Adjustment level : Playback output of 315Hz to playback output of 10kHz : $\pm 0.5\text{dB}$ (- 1.3 to 1.3mV).

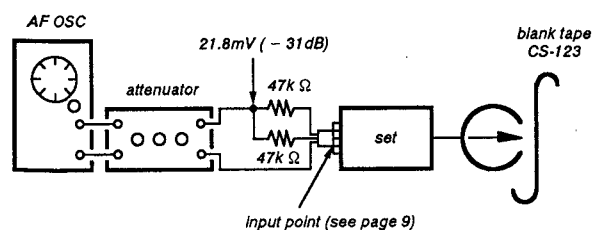
Adjustment Location : AUDIO board.

Record Level Adjustment **DECK B**

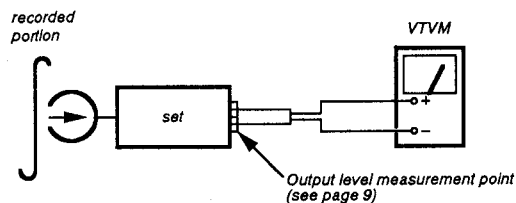
FUNCTION button : CD

Procedure :

1. Record mode



2. Playback mode



3. Confirm playback the signal recorded in step 1 become adjustment level as follows.
4. If these levels do not adjustment level, adjust the RV301 (L-CH) and RV351 (R-CH) to repeat step 1 and 4.

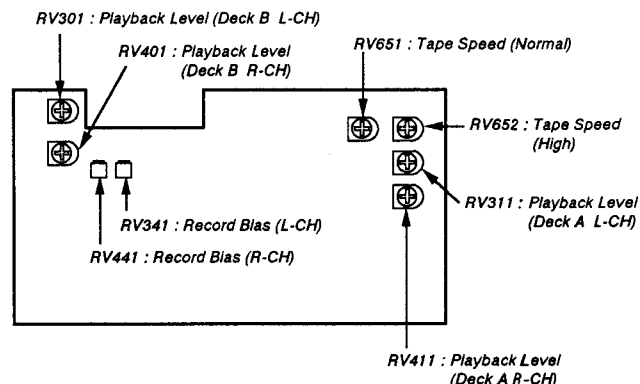
Adjustment Level :

OUT PUT level : $-26\text{dB} \pm 0.5\text{dB}$ (36.7 to 41.1mV)

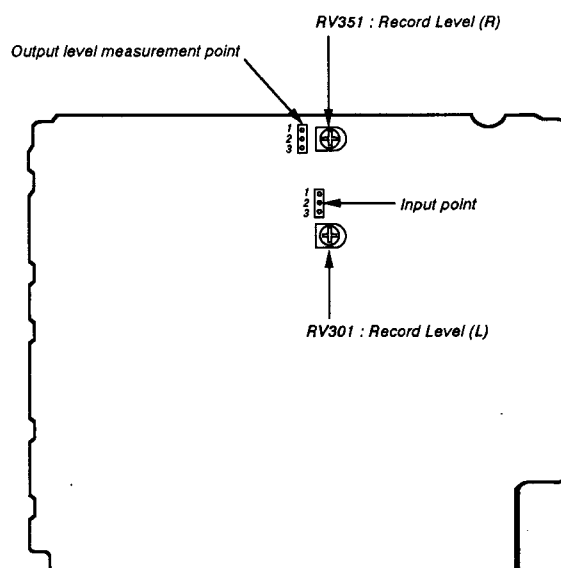
Adjustment Location : MAIN board

Adjustment Location

[AUDIO BOARD] — Component side —



[MAIN BOARD] — Component side —



TUNER SECTION

Precautions In Repairing

Note. 1 : The adjustment should be performed in the publication.
(MW → FM → SW)

Note. 2 : As a front-end (FE1) is difficult to repair if faulty, replace it with new one.

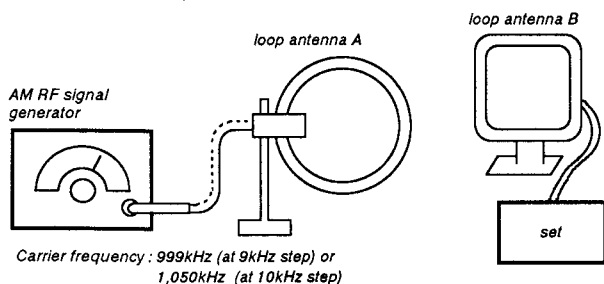
● Abbreviation

CND : Canadian	AUS : Australian
IT : Italian	JE : Tourist
G : German	AR : Argentine
EE : East European	E2 : Tuner sections SW BAND do not exist.
SU : Russian	E3 : Tuner sections SW BAND exist.
IA : Indonesia	MX : Mexican
EA : Saudi Arabia	TH : Thailand
HK : Hong Kong	
SP : Singapore	
MY : Malaysia	

MW Tuned Indication Lighting Level

Setting :

Band : MW



Procedure :

1. Set loop antenna A so that the loop antenna B input level becomes 55dB μ /m (0.6mV/m)
2. Tune the set to 999kHz (at 9kHz step) or 1,050kHz (at 10kHz step).
3. Adjust RV41 (AEP, UK, G, IT, E3, EA, MY, SP, HK, JE, IA, EE, CIS model), RV42 (US, CND, E2, AUS, AR, MX, TH model) so that the TUNED indicator goes on.

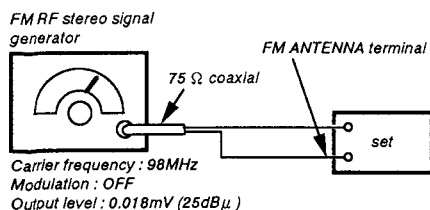
Adjustment Location : TCB board (see page 14)

FM Tuned Indication Lighting Level

Note : Always make the tuning level adjustment first.
(Since it affects the the FM tuning level.)

Setting :

Band : FM



Procedure :

1. Tune the set to 98MHz.
2. Adjust RV41 (US, CND, E2, AUS, AR, MX, TH model), RV42 (AEP, UK, G, IT, E3, EA, MY, SP, HK, JE, IA, EE, CIS model) so that the TUNED indicator goes on.

Adjustment Location : TCB board (see page 14)

SW Control Voltage Adjustment (Frequency Coverage Adjustment) (E3, EA, MY, SP, HK, JE model)

Setting :

Band : SW

Procedure :

1. Connect digital Voltmeter to diode D1 center lead and ground.
2. Adjust for a following value reading on digital voltmeter.

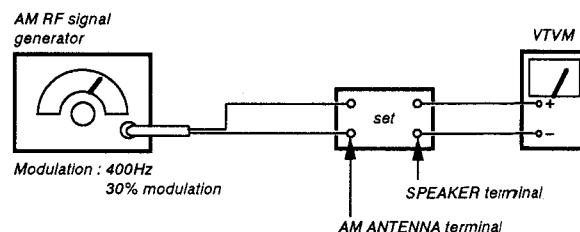
	Set frequency	Adjustment part	Reading on digital voltmeter
SW	5.95MHz	T2	1.2Vdc
	17.9MHz	CV2	8.5Vdc

Adjustment Location : TCB board (see page 14)

SW Tracking Adjustment (E3, EA, MY, SP, HK, JE, IA, CIS model)

Setting :

Band : SW



Procedure :

Adjust for maximum reading on VTVM

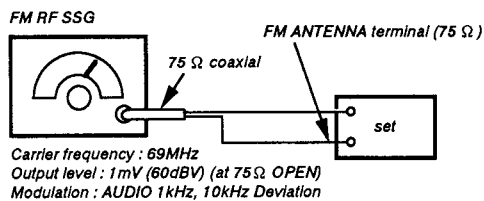
	Set frequency	Adjustment part
SW	7MHz	T1
	17MHz	CV1

- Repeat the procedures is each adjustment several times, and the frequency coverage and tracking adjustment should be finally done by the trimmer capacitors.

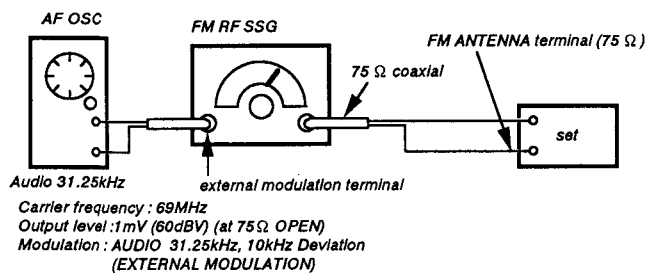
Adjustment Location : TCB board (see page 14)

FM Poler Adjustment (CIS model only)

Connection 1 :



Connection 2 :



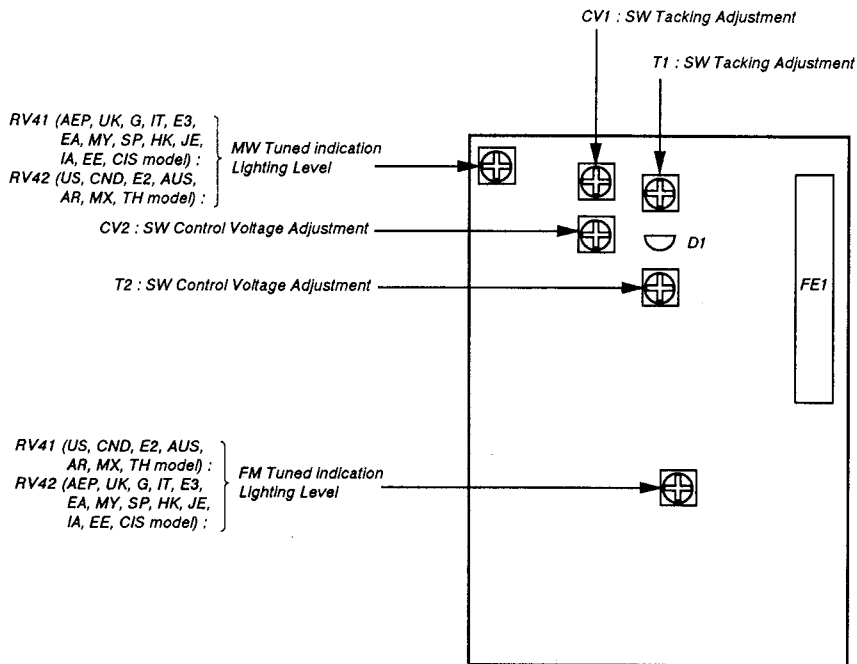
Procedure :

1. Set the modulation of FM RF SSG to AUDIO 1kHz, 10kHz deviation according to "Connection 1".
2. Tune the set to 69 MHz.
3. Adjust the RV1702 so that the reading of frequency counter connected to TP1702 becomes within $31.25\text{kHz} \pm 0.05\text{kHz}$. (VCO adjustment)
4. Then record the reading of the level meter connected to TP1701.
5. Set the modulation of FM RF SSG to AUDIO 31.25kHz, 10kHz deviation according to "Connection 2".
6. Tune the set to 69 MHz.
7. Set the CT1701 to be mechanical center.
8. Adjust the L1701 so that the reading of the level meter connected to TP1701 becomes maximum.
Then adjust the CT1701 so that the reading of the level meter connected to TP1701 becomes maximum. (SUB CARRIER PEAK Adjustment)
9. Adjust the RV1701 so that the level at the moment becomes 14dB higher value than the level recorded in step 4. (SUB CARRIER LEVEL Adjustment)

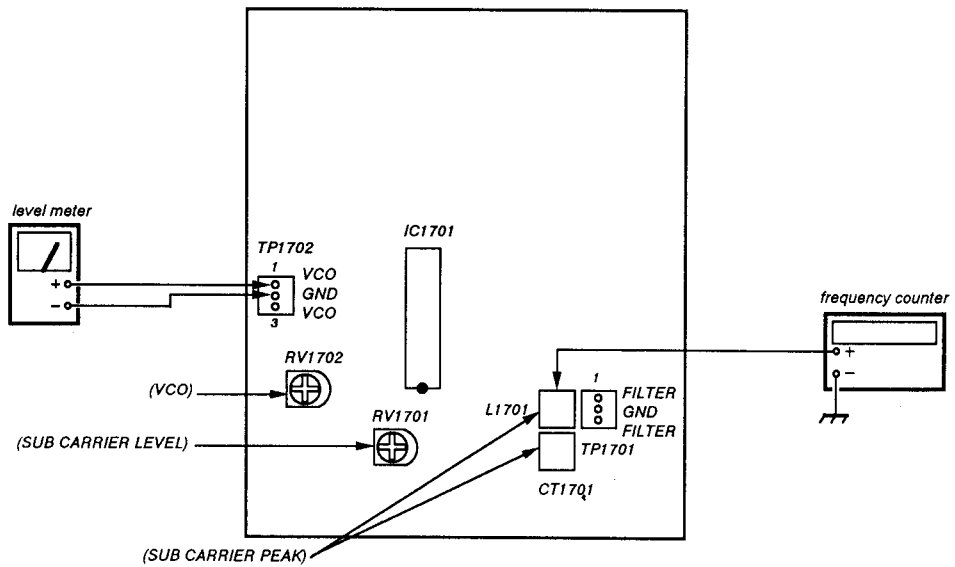
Adjustment Location : POLER board (see page 14)

Adjustment Location

[TCB BOARD] (Component side)



[POLER BOARD] (Component side)



CD SECTION

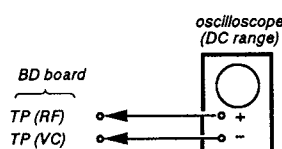
Note :

1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10M Ω impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

Focus Bias Adjustment

This adjustment is to be done when the optical block is replaced.

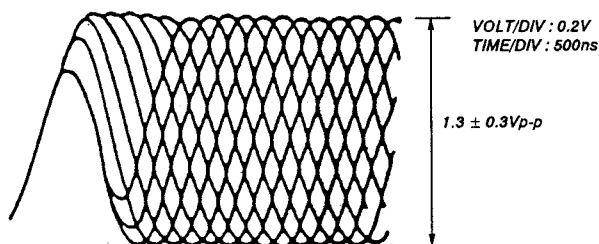
Adjustment procedure :



1. Connect oscilloscope to test point TP (VC) and TP (RF) on BD board.
2. Turned power switch ON. (Stop mode)
3. Put disc (YEDS-18) in and press the $\triangleright$ button.
4. Adjust RV101 so that the oscilloscope waveform is as shown in the figure below (eye pattern).

A good eye pattern means that the diamond shape ($\diamond$) in the center of the waveform can be clearly distinguished.

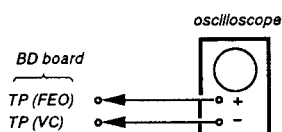
● RF signal reference waveform (eye pattern)



When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

Adjustment Location : BD board (see page 16)

S-Curve Check

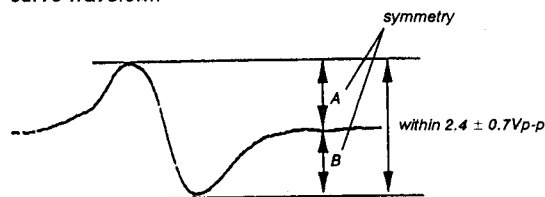


Procedure :

1. Connect oscilloscope to test point TP (FEO) and BD board.
2. Connect between test point TP (FOK) and GND by lead wire.
3. Turned Power switch on.
4. Put disc (YEDS-18) in and turned Power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out.)

5. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within $2.4 \pm 0.7Vp-p$.

S-curve waveform



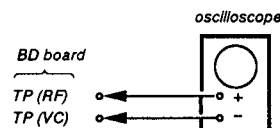
6. After check, remove the lead wire connected in step 2.

Note : ● Try to measure several times to make sure that the ratio of A : B or B : A is more than 10 : 7.

● Take sweep time as long as possible and light up the brightness to obtain best waveform.

Adjustment Location : BD board (see page 16)

RF Level Check



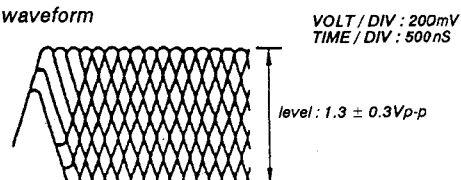
Procedure :

1. Connect oscilloscope to test point TP (RF) on BD board.
2. Turned Power switch on.
3. Put disc (YEDS-18) in and press the $\triangleright$ button.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note :

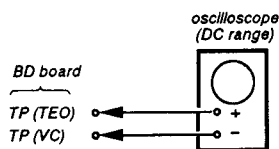
Clear RF signal waveform means that the shape " $\diamond$ " can be clearly distinguished at the center of the waveform.

RF signal waveform



Adjustment Location : BD board (see page 16)

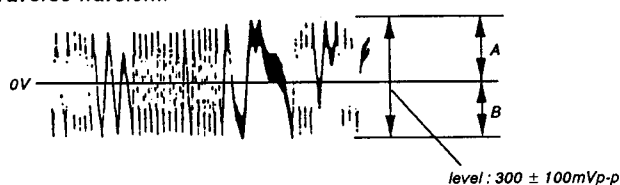
E-F Balance Check



Procedure :

1. Ground main board IC701 (pin 39) with the lead wire.
2. Connect oscilloscope to test point TP (TEO) on BD board.
3. Turned Power switch on.
4. Put disc (YEDS-18) in and press the ▶ button.
5. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

Traverse waveform



Specified value : $\bullet \frac{A - B}{2(A+B)} \times 100 = \text{less than } \pm 7\%$
 $\bullet A+B = 300 \pm 100\text{mVp-p}$

6. Remove the lead wire connected in step 1.

Focus/Tracking Gain Adjustment (RV102, RV103)

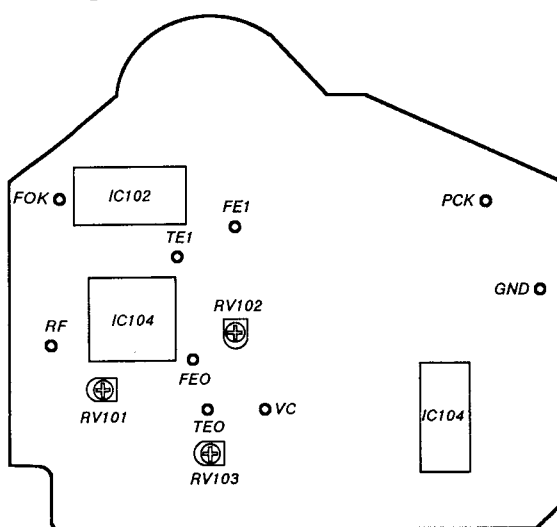
This gain has a margin, so even if it is slightly off. There is no problem.

Therefore, do not perform, this adjustment.

Please note that it should be fixed to mechanical center position when you moved and do not know original position.

Adjustment Location :

[BD BOARD] — Conductor side —



SECTION 5 EXPLANATION OF IC TERMINALS

IC500 ASD0204-012-3BA (SYSTEM CONTROL /FL DRIVE)

Pin No.	Pin name	I/O	Description
1	VDD	–	Power supply. (+5V)
2	LED8	O	LED drive output. (EFFECT ON/OFF, GROOVE)
3	LED7	O	LED drive output. (DECK B : ▷ PLAY, ◁ PLAY)
4	LED6	O	LED drive output. (DECK B : ● REC, ■ PAUSE)
5	LED5	O	LED drive output. (DECK A : ▷ PLAY, ◁ PLAY)
6	LED4	O	LED drive output. (TUNER/BAND, CLIP C)
7	LED3	O	LED drive output. (ENTER/NEXT, SONIC FORMATION)
8	LED2	O	LED drive output. (MULTI JOG STATION ◀◀/▶▶, ◀/▶)
9	LED1	O	LED drive output. (MULTI JOG STATION +/-)
10	RESET	I	Reset terminal.
11	X2	–	Oscillator connection terminal. (5MHz)
12	X1	–	Oscillator connection terminal. (5MHz)
13	IC (VPP)	–	GND connection.
14	XT2	–	Oscillator connection terminal. (Not used : OPEN)
15	JOG-B	I	JOG dial encoder input.
16	VDD	–	Power supply. (+5V)
17	LED10	O	LED drive output. (CLIP B, DSP)
18	LED9	O	LED drive output. (CLIP A, ECHO)
19	KEY-SEL	O	Not used. (OPEN)
20	VOL-B	I	Volume encoder input.
21	REQ-GM	O	Data Transmission request output to master control (IC701).
22	CLK-MG	I	Clock input for communications with master control (IC701).
23	DATA-GM	O	Serial data output from master control (IC701).
24	DATA-MG	I	Serial data input from master control (IC701).
25	AVSS	–	GND
26 – 29	SPEANA4 – 1	I	Spectrum analyzer signal input.
30 – 33	KEY4 – 1	I	Key data input. (A/D converter)
34	AVDD	–	Power supply for analog. (+5V)
35	AVREF	–	Reference Voltage for A/D converter. (+5V)
36	VOL-A	I	Volume encoder input.
37	JOG-A	I	JOG dial encoder input.
38	RDY-MG	I	Master control with Ready signal input. L : Ready
39	SIRCS	I	SIRCS signal input.
40	VSS	–	GND
41	LED14	O	LED drive output. (DISC 1)
42	LED SELECT	O	LED drive select output.
43	LED13	O	LED drive output. (▷■)
44	LED12	O	LED drive output. (DISC 3)
45	LED11	O	LED drive output. (DISC 2)
46	VDD	–	Power supply. (+5V)
47 – 50	LEDS7 – 4	O	Not used. (OPEN)

Pin No.	Pin name	I/O	Description
51	LEDS3	O	LED drive output. (MULTI CD)
52	LEDS2	O	LED drive output. (MULTI TUNER)
53	LEDS1	O	LED drive output. (MULTI TIMER)
54 – 78	SEG32 – 8	O	Segment output to FL501.
79	V LOAD	–	Power supply for fluorescent indicator tube.
80 – 86	SEG7 – 1	O	Segment output to FL501.
87-100	GR14 – 1	O	Grid output to FL501.

IC701 TMP87CS64YF - 6361 (MASTER CONTROL)

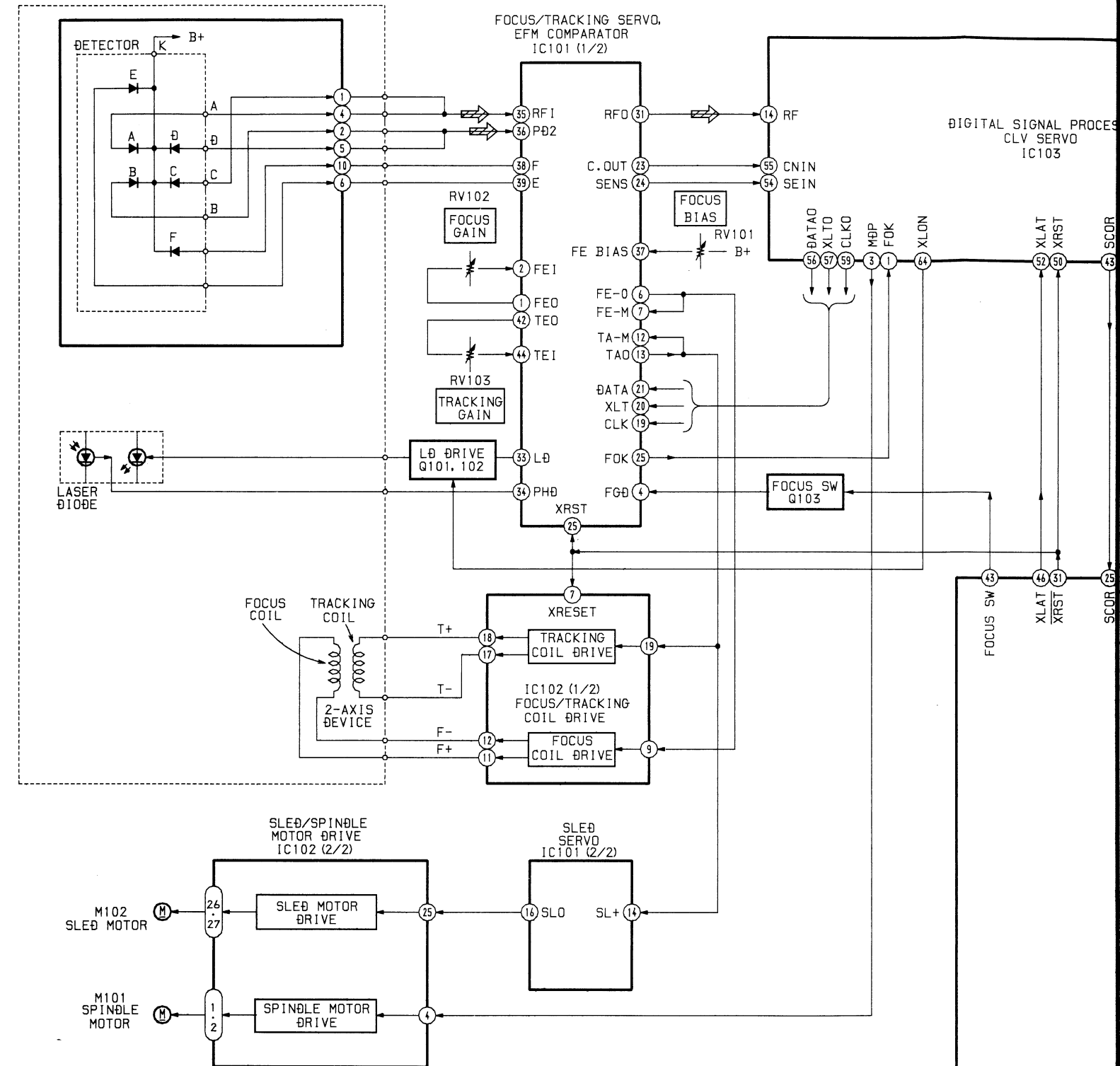
Pin No.	Pin name	I/O	Description
1	VSS	–	GND
2	X OUT	O	Oscillator connection terminal (10MHz).
3	X IN	I	Oscillator connection terminal (10MHz).
4	RESET	I	Reset signal input terminal. L : RESET
5	X OUT	O	Oscillator connection terminal (32KHz).
6	X IN	I	Oscillator connection terminal (32KHz).
7	GND (TEST)	–	Not used (GND).
8	AC CUT	I	Power supply DET input terminal.
9	SUPER WOOFER ON	O	SUPER WOOFER ON/OFF control.
10	ST MUTE ON	O	TUNER Mute ON/OFF control.
11	180 A PLAY	I	Not used (GND).
12	180 B PLAY	I	Not used (GND).
13	180 B REC	I	Not used (GND).
14	V • DET CLOCK CHECK	I	Voltage Detection terminal. (for CLOCK BACK UP)
15	DO UP (5CD)	I	UP/DOWN MOTOR control. Not used (OPEN).
16	TRY CLOSE (1CD)	I	Not used (GND).
17 – 19	ENCODER 1 – 3	I	Rotary encoder input terminal.
20	OUT SW OPEN	I	Loading out switch input.
21	LOAD IN	O	Loading Motor control output (Loading input).
22	LOAD OUT	O	Loading Motor control output (Loading output).
23	TBL-L	O	Table motor control output.
24	TBL-R	O	Table motor control output.
25	SCOR	I	Sub code SYNC input from DSP (IC103).
26	TBL SENS	I	Table Sensor input.
27	RDS INT	I	RDS DATA START signal input.
28	RDS DATA	I	RDS DATA input.
29	DF LAT	O	Latch output to the digital filter (IC104).
30	SENS	I	Sens signal input from the DSP (IC103).
31	XRST	O	CD reset signal output terminal.
32	MG • RDY	I/O	System control (IC500) with Ready signal input/output. L : Ready
33	ADJ	I	CD test mode terminal. L : ADJ Mode
34	GM REQ	I	Data transmission request input from system control (IC500).
35	MG CLK	O	Clock output for communications with system control (IC500).
36	GM DATA	I	Serial data input from system control (IC500).
37	MG DATA	O	Serial data output to system control (IC500).
38	CD CLK	O	Serial data transfer clock output to DSP (IC103) and digital filter (IC104).
39	ADJ 2	I	CD test mode terminal. L : ADJ 2 Mode
40	CD DATA	O	Serial data output to DSP (IC103) and digital filter (IC104).
41	DBFB ON	O	Not used (OPEN).
42	DBFB OFF	O	Not used (OPEN).
43	FOCUS SW	O	High-pass gain select output of the focus servo.
44	SQ CLK	O	Sub code Q read clock output to the DSP (IC103).
45	SQ DATA	I	Sub code Q data input from DSP (IC103).

Pin No.	Pin name	I/O	Description
46	X-LAT	O	Serial data latch output to the DSP (IC103).
47	TEST	O	Terminal for test mode.
48	VAREF	–	Reference Voltage for A/D converter. (+5V)
49	VASS	–	GND for analog (GND).
50	VSS	–	GND
51	VDD	–	Power supply. (+5V)
52	SPEC	I	Terminal for mechanism selection.
53	DESTINATION	I	Terminal for model selection.
54	DISC SENS	I	Disc Sensor input terminal.
55	TC RELAY	O	REC/PB head selector signal output.
56	A-SHUT	I	Deck-A reel table detect.
57	B-SHUT	I	Deck-B reel table detect.
58	B-HALF	I	Deck-B cassette detect.
59	A-HALF	I	Deck-A cassette detect.
60	220 A PLAY	I	Deck-A play detect.
61	220 B PLAY	I	Deck-B play detect.
62	62427-LAT	O	Serial data latch output to IC 901.
63	K-CON-LAT	O	Not used (OPEN).
64	VOL-LAT (AV)	O	Not used (OPEN).
65	FRONT • SP RELAY B	O	Front speaker Relay Drive output.
66	REAR • SP RELAY C	O	Rear speaker Relay Drive output.
67	POWER ON	O	Power ON output. L : ON
68	CD POWER	O	CD power switch output.
69	PROLOG LAT	O	Not used (OPEN).
70	MUTE	O	Mute ON/OFF control. L : Mute ON
71	COM CLK	O	System clock (COM) output.
72	COM DIN	I	Serial data input from tuner.
73	COM DATA	O	Serial data (COM) output.
74	K-COM-ON	O	Not used (OPEN).
75	RIGID LED	O	Not used (OPEN).
76	MD/VIDEO	O	MD/VIDEO level chage output. (not used)
77	DBFB HIGH	O	DBFB LOW/HIGH control. L : DBFB High
78	CD PWM SEL	O	Tray mechanism control selection (GND connection).
79	PRO LOGIC RELAY	O	Not used (OPEN).
80	TC-A	O	Deck A/B Selection output. L : Deck-A
81	NORM	O	NORMAL/HIGH Selection output. L : Normal (for tape EQ)
82	BIAS OFF	O	Bias ON/OFF Selection output. L : Bias OFF
83	REC MUTE	O	REC Mute ON/OFF Selection output. L : Mute ON
84	NR OFF	O	NR ON/OFF Selection output. L : NR OFF
85	PB	O	REC/PB Selection output. L : PB
86	PASS • AMP/DOLBY	O	Dolby pass signal output.
87	LINE MUTE ON	O	Line mute signal output. L : Mute ON
88	CAP • M HIGH	O	Capstan moter HIGH/LOW Selection output. L : High
89	A – TRG	O	Trigger motor control output.
90	B – TRG	O	Trigger motor control output.

Pin No.	Pin name	I/O	Description
91	TRG LOW	O	Trigger motor HIGH/LOW control output. L : LOW
92	CAP • M ON	O	Capstan motor ON/OFF control output. L : ON
93	STEREO	I	FM/AM Stereo identification. L : Stereo
94	TUNED	I	FM/AM Tuning identification. L : Tuning
95	ST-CE	O	Chip enable output to Tuner.
96	DELAY SEL • MIC	O	Not used (OPEN).
97	DELAY ON	O	Delay ON/OFF control output. L : Delay ON
98	DELAY LEVEL-A	O	Delay level control output.
99	DELAY LEVEL-B	O	Delay level control output.
100	VDD	-	Power supply. (+5V)

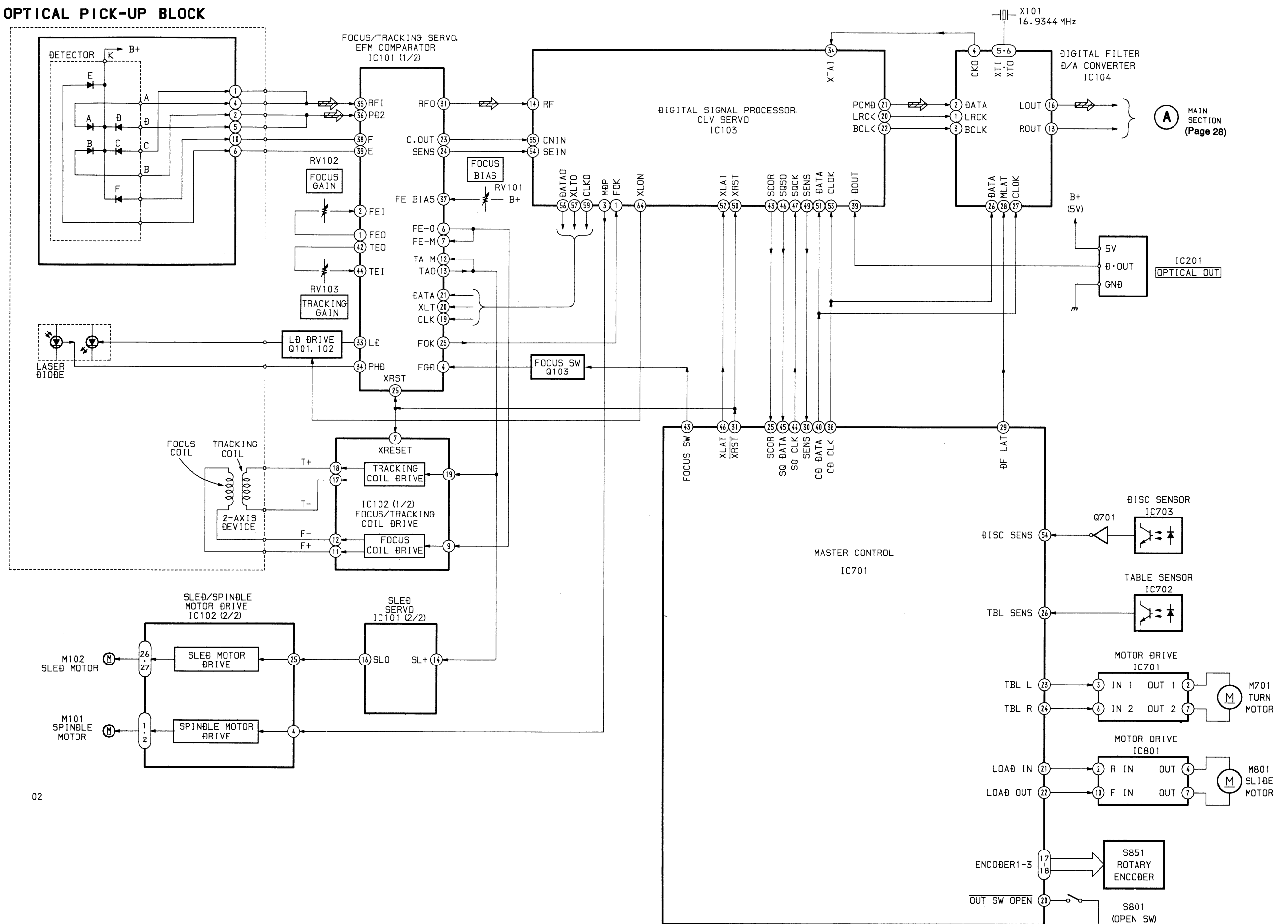
SECTION 6 DIAGRAMS

6-1. BLOCK DIAGRAM – CD SECTION –
OPTICAL PICK-UP BLOCK



SECTION 6 DIAGRAMS

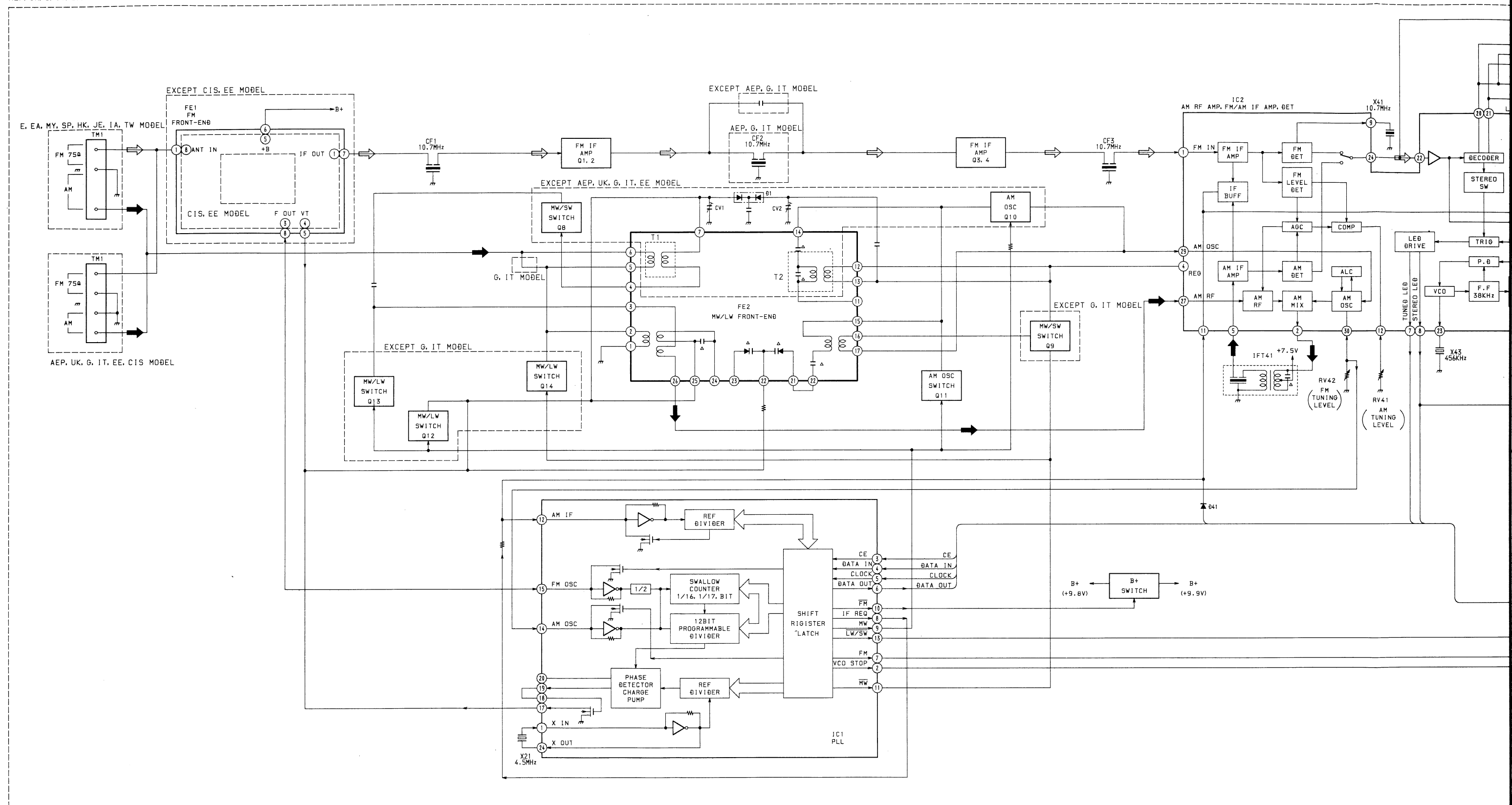
6-1. BLOCK DIAGRAM - CD SECTION - OPTICAL PICK-UP BLOCK

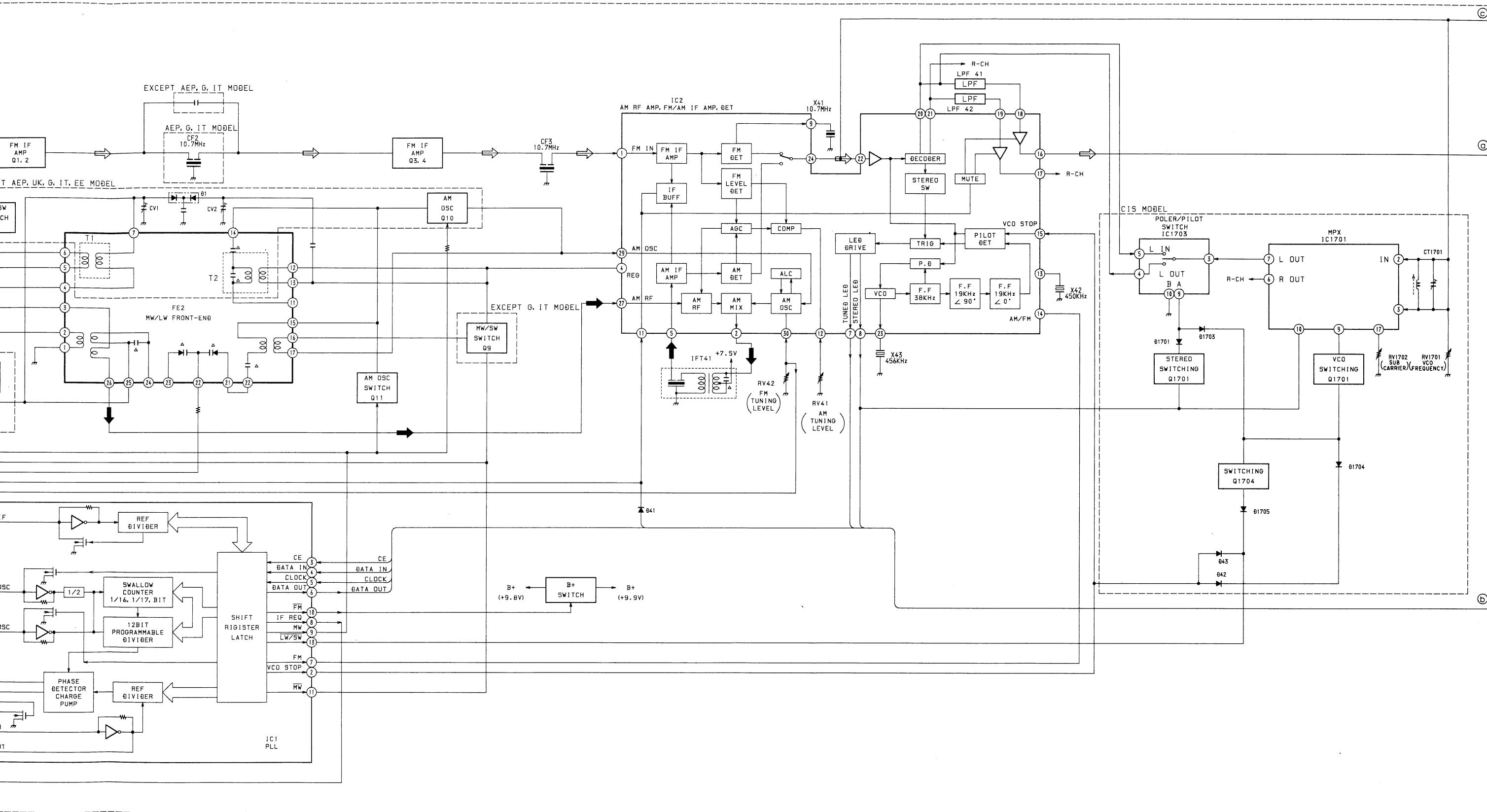


02

6-2. BLOCK DIAGRAM — MAIN SECTION (1) —

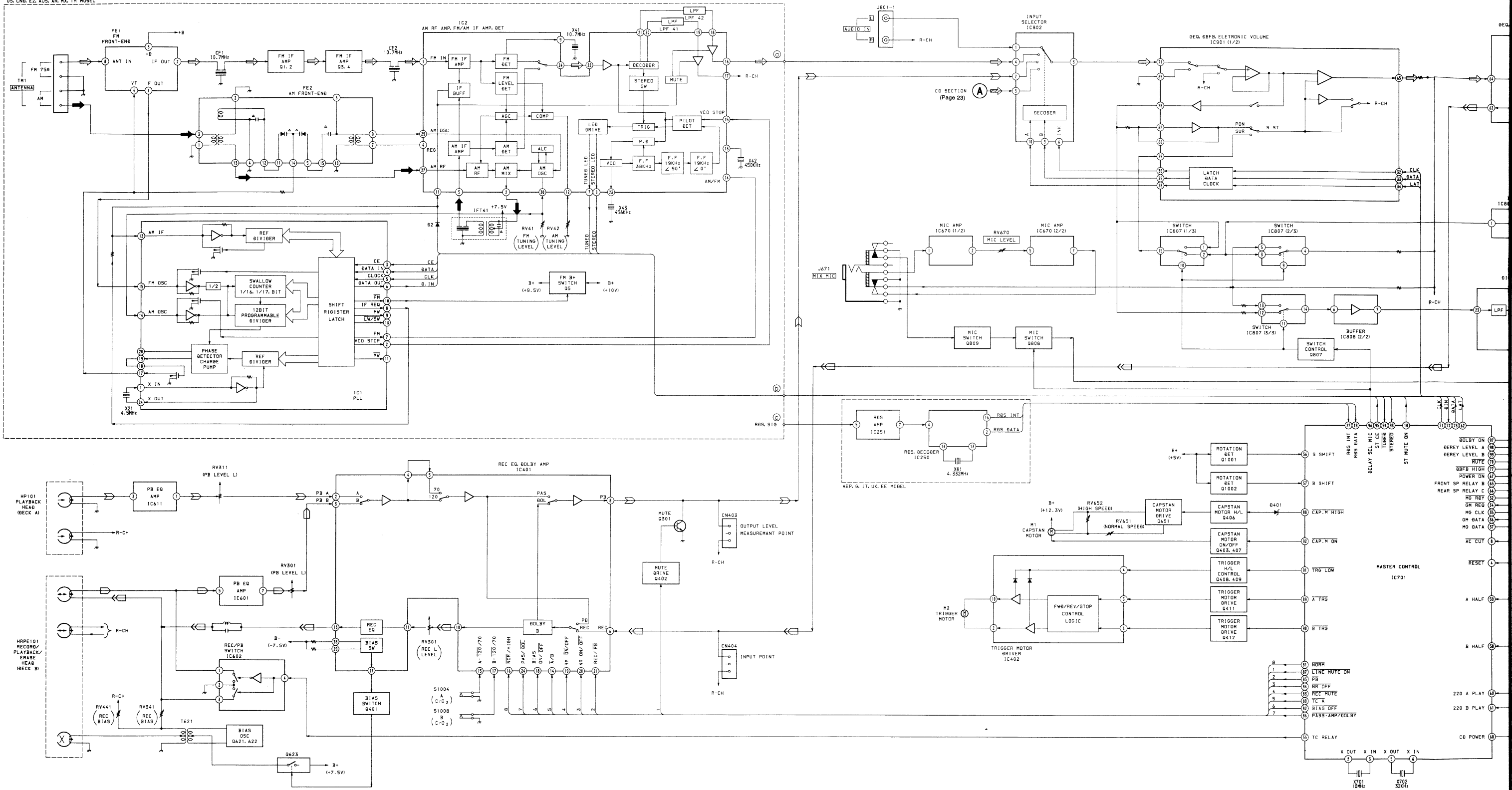
AEP, UK, G, IT, EE, CIS, E, EA, MY, SP, HK, JE, IA, TW MODEL





6-3. BLOCK DIAGRAM - MAIN SECTION (2) -

US, CNB, E2, AUS, AR, MX, TH, MOBL



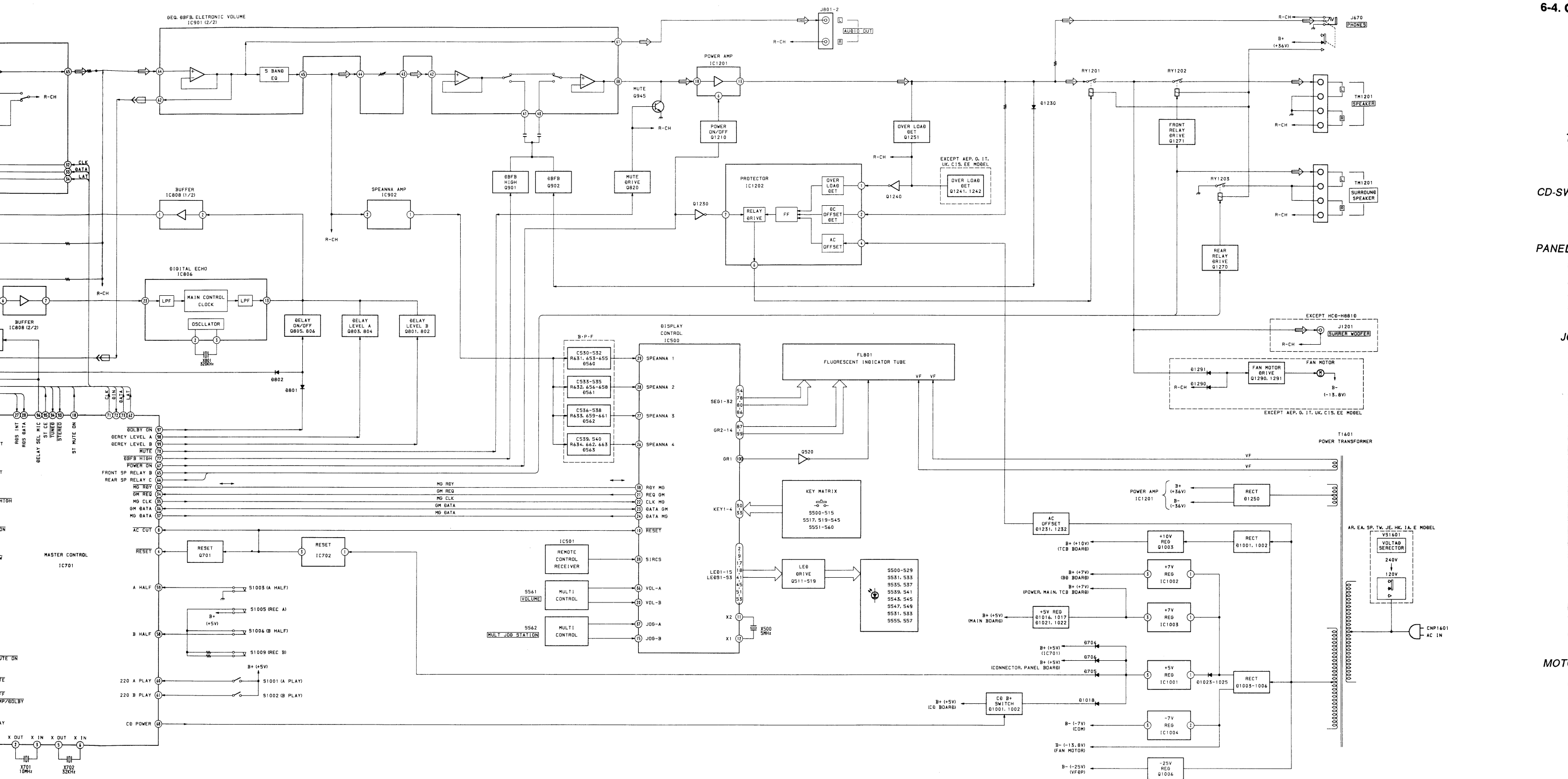
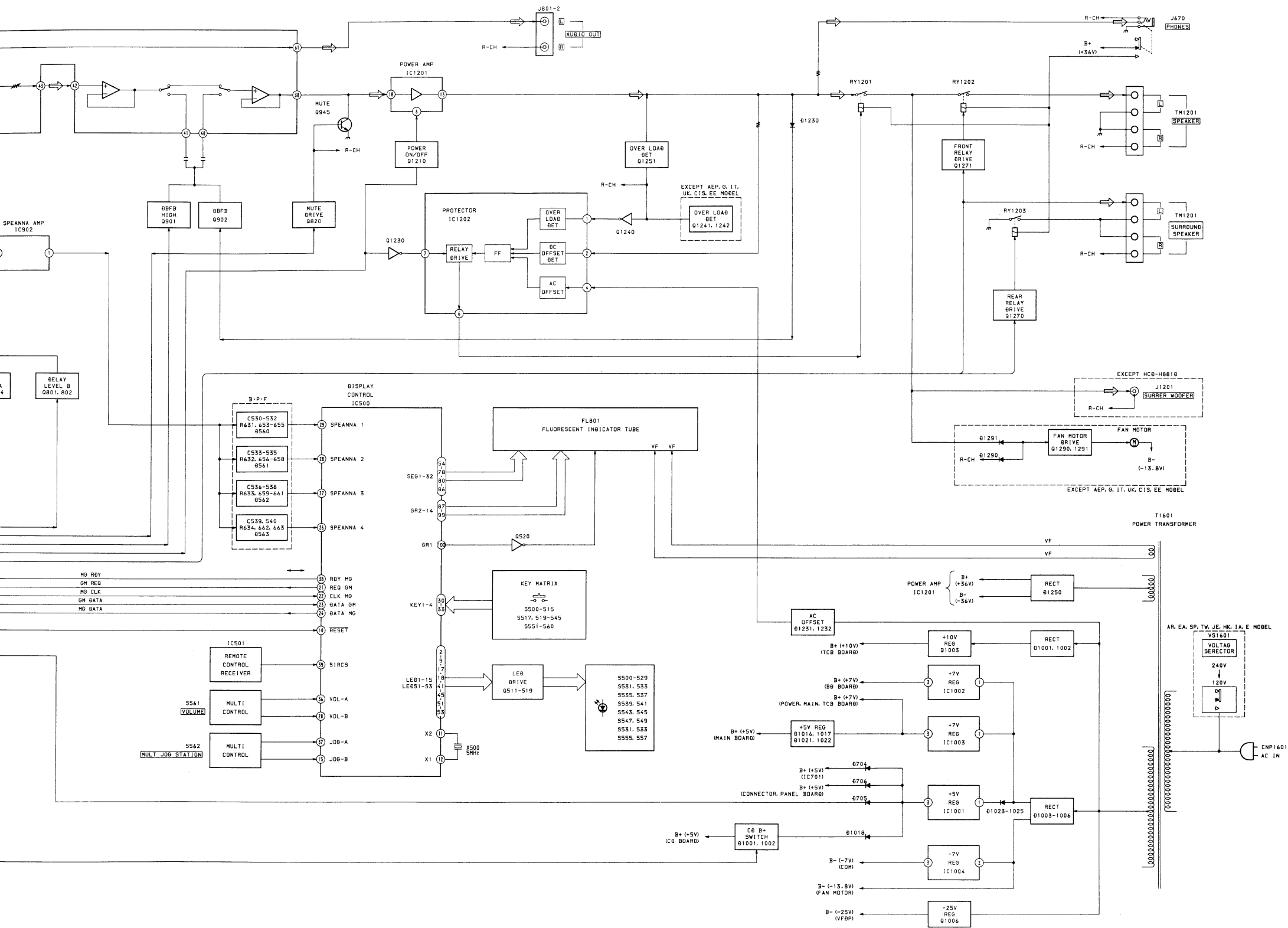


Diagram illustrating the internal components of the Model 100 computer, showing the arrangement of various boards and their connections:

- MOTOR (TURN) board**: Located at the top left, connected to the **BD board**.
- CONNECTOR board**: Located below the MOTOR (TURN) board, connected to the **BD board**.
- SENSOR board**: Located below the CONNECTOR board, connected to the **BD board**.
- BD board**: The central Board of Distribution, connected to all other boards.
- MOTOR board**: Located at the bottom left, connected to the **BD board**.
- LEAF SW board**: Located below the MOTOR board, connected to the **BD board**.
- AUDIO board**: Located at the bottom center, connected to the **BD board**.
- MOTOR (SLIDE) board**: Located at the bottom right, connected to the **BD board**.



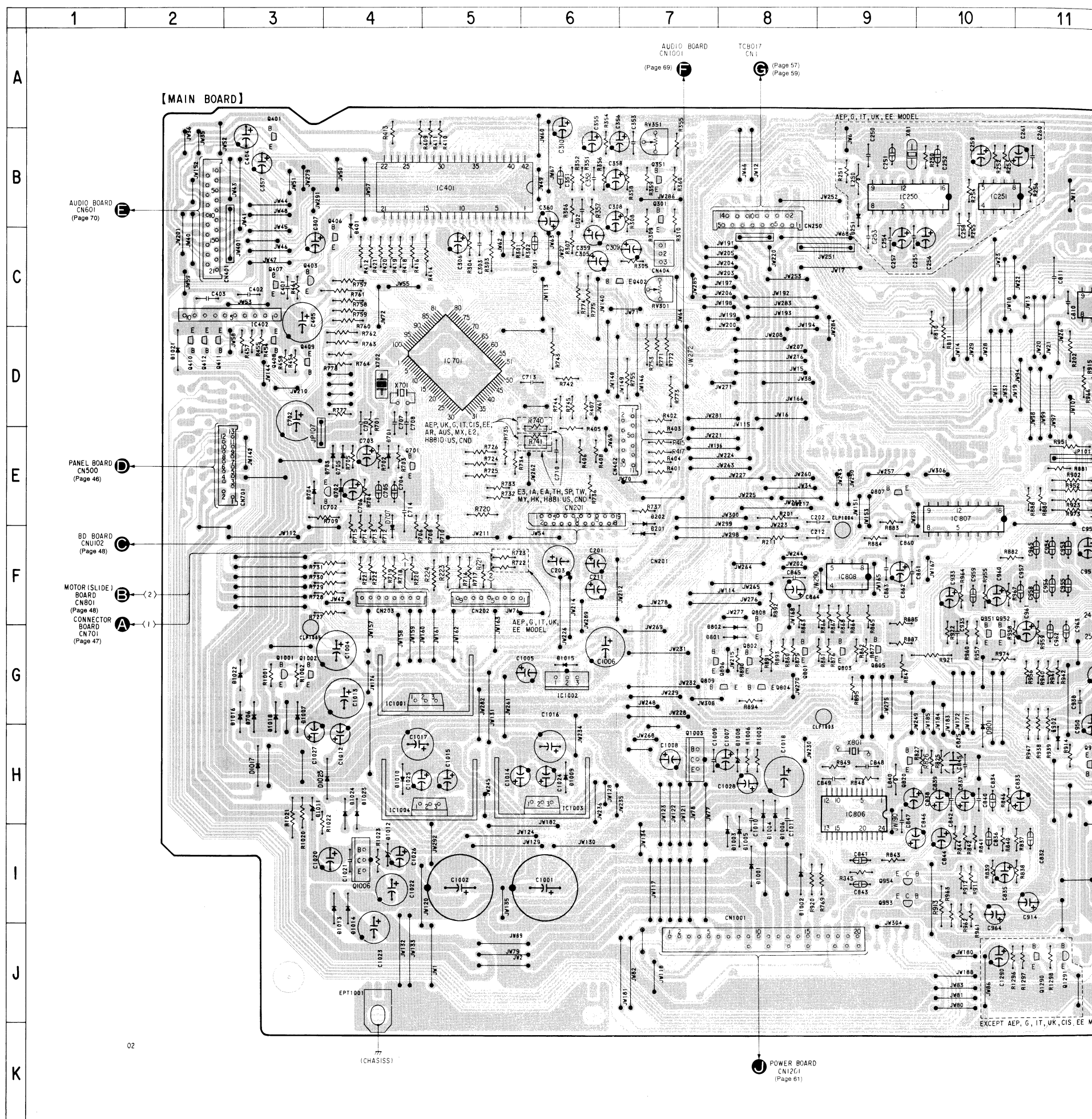
- SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D201	F - 7	IC807	E - 10
D202	E - 7	IC808	F - 9
D251	B - 9	IC901	F - 12
D401	B - 4	IC902	H - 12
D701	E - 4	IC1001	G - 4
D702	E - 4	IC1002	G - 6
D703	E - 4	IC1003	H - 6
D704	E - 3	IC1004	H - 4
D705	E - 4		
D706	G - 3		
D707	E - 4	Q301	B - 7
D801	G - 8	Q351	B - 7
D802	G - 8	Q401	B - 3
D901	G - 10	Q402	C - 6
D902	H - 11	Q403	C - 3
D1001	I - 8	Q406	C - 4
D1002	I - 8	Q407	C - 3
D1003	I - 8	Q408	D - 3
D1004	H - 8	Q409	D - 3
D1006	H - 8	Q410	D - 2
D1007	G - 3	Q411	D - 2
D1008	H - 8	Q412	D - 2
D1009	H - 6	Q701	E - 4
D1010	H - 4	Q801	G - 8
D1011	H - 3	Q802	G - 8
D1012	I - 4	Q803	G - 9
D1013	I - 3	Q804	G - 8
D1014	I - 3	Q805	G - 9
D1016	G - 3	Q806	G - 7
D1017	H - 3	Q807	E - 9
D1018	G - 3	Q808	F - 8
D1021	D - 2	Q809	G - 8
D1022	G - 3	Q820	H - 9
D1023	H - 4	Q901	H - 12
D1024	H - 4	Q902	H - 11
D1025	H - 4	Q951	G - 10
IC201	B - 13	Q952	G - 10
IC250	B - 9	Q953	I - 9
IC251	B - 10	Q954	I - 9
IC401	B - 5	Q1001	G - 3
IC402	C - 3	Q1002	G - 3
IC701	D - 5	Q1003	H - 7
IC802	C - 12	Q1006	I - 4
IC806	H - 9	Q1290	J - 11
		Q1291	J - 11

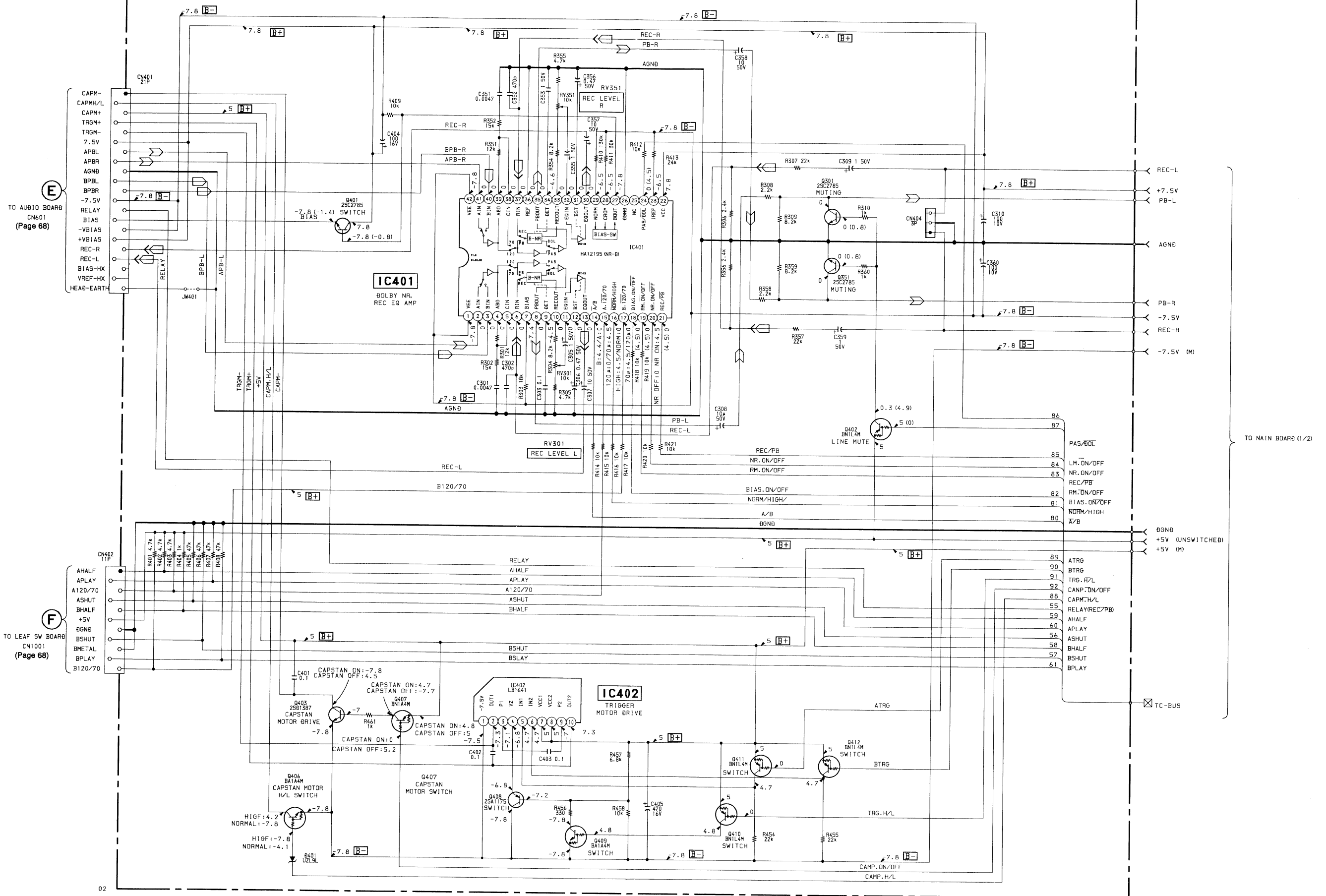
Note:

-  : parts extracted from the component side.
-  : Pattern on the side which is seen.
- Abbreviation

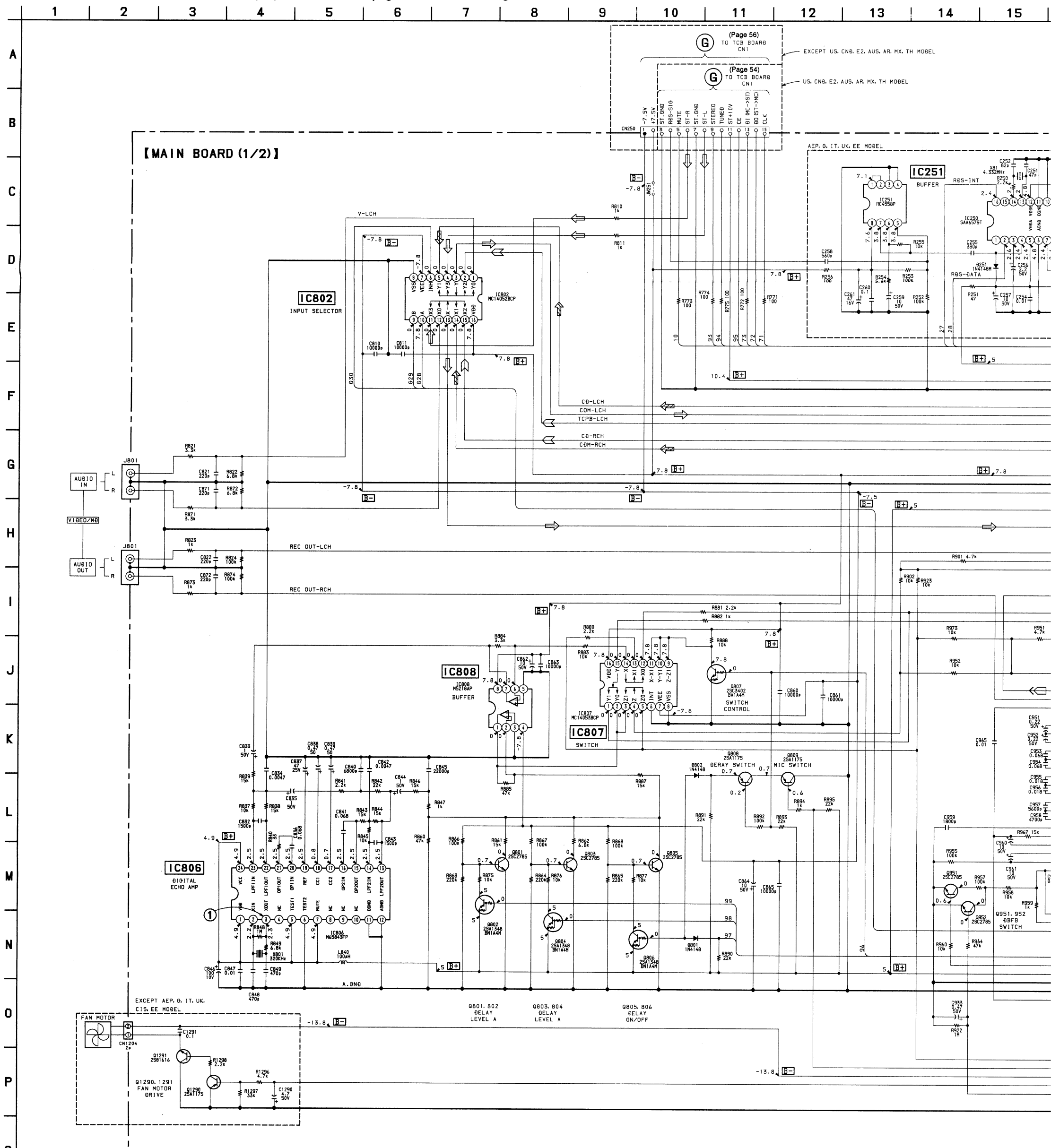
CND : Canadian	HK : Hong Kong
AUS : Australian	JE : Tourist
AR : Argentine	IA : Indonesia
MX : Mexican	G : German
TH : Thailand	IT : Italian
EA : Saudi Arabia	EE : East European
MY : Malaysia	TW : Taiwan
SP : Singapore	

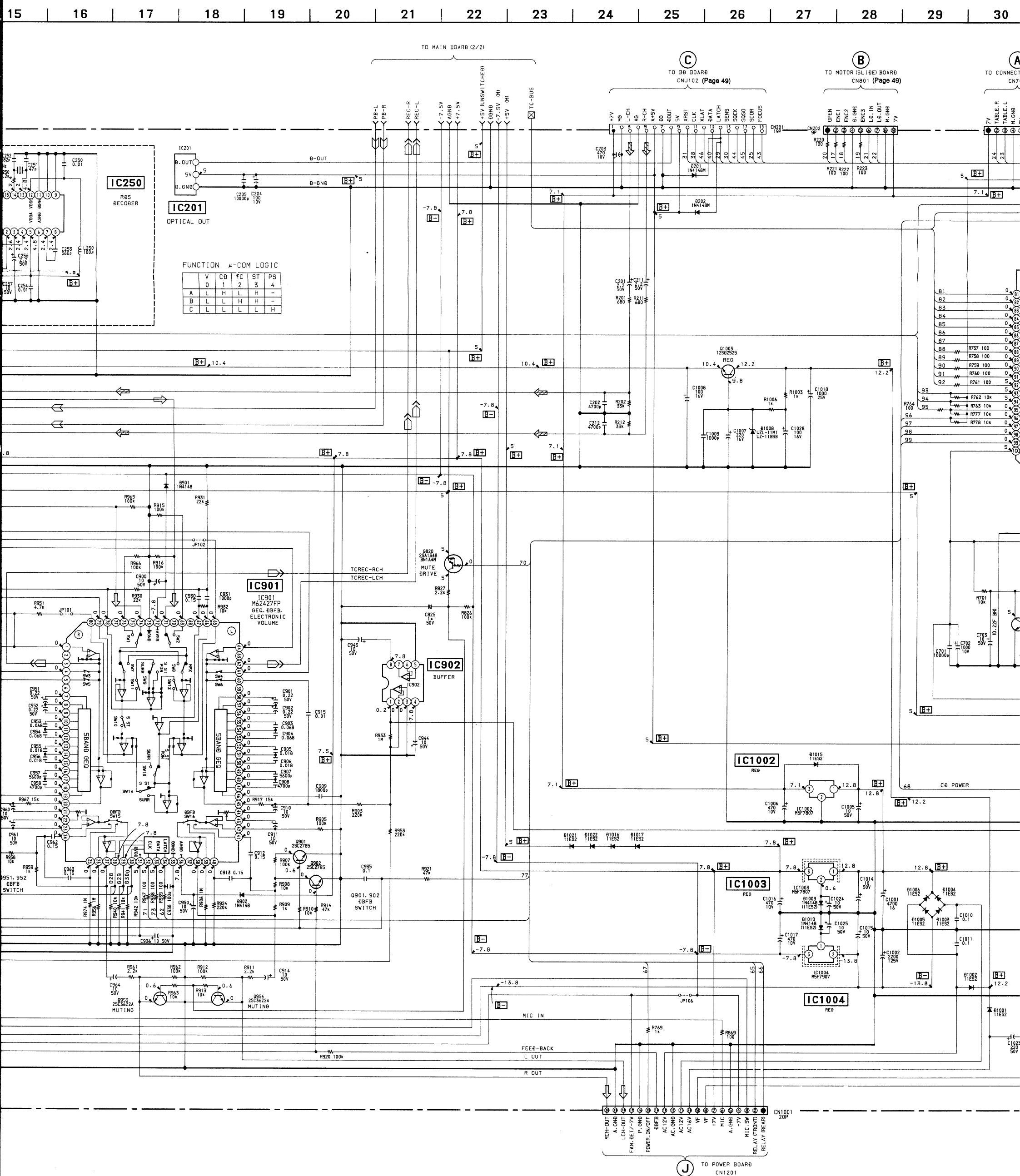


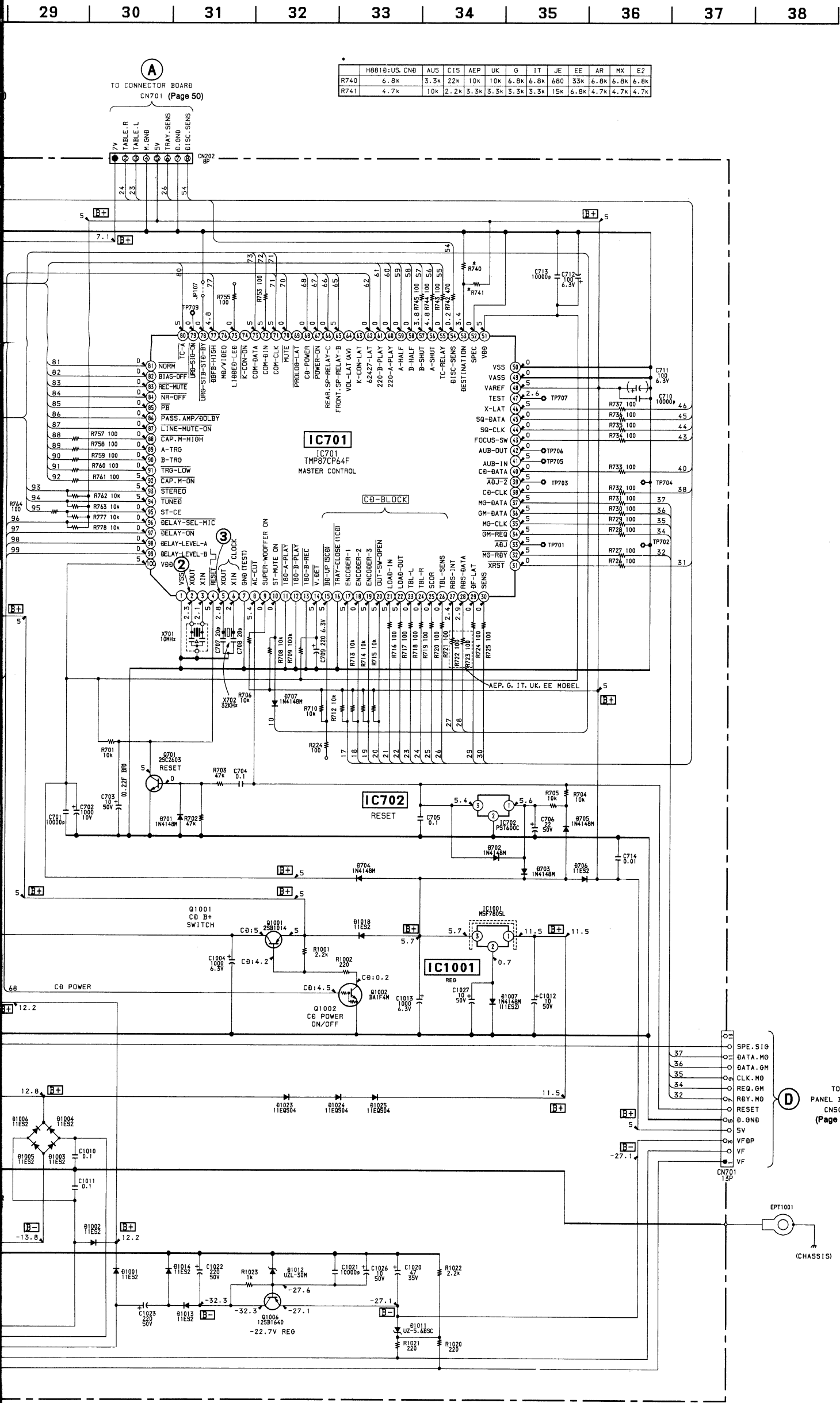
【MAIN BOARD (2/2)】



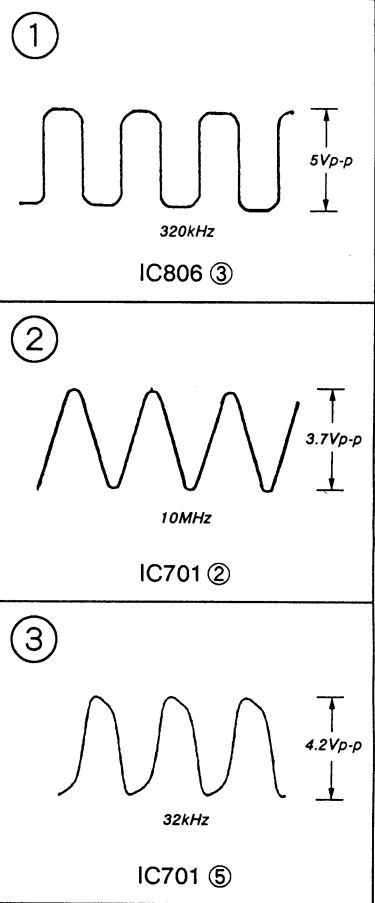
6-7. SCHEMATIC DIAGRAM - MAIN SECTION (1/2) - • Refer to page 73 for IC Block Diagrams.







• WAVEFORMS – MAIN SECTION –

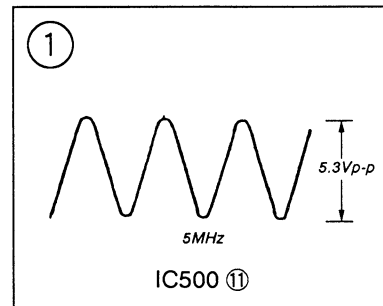


- Note :**
- All capacitors are in μF unless otherwise noted. pF: $\mu \mu F$
 - 50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
 - Δ : internal component.

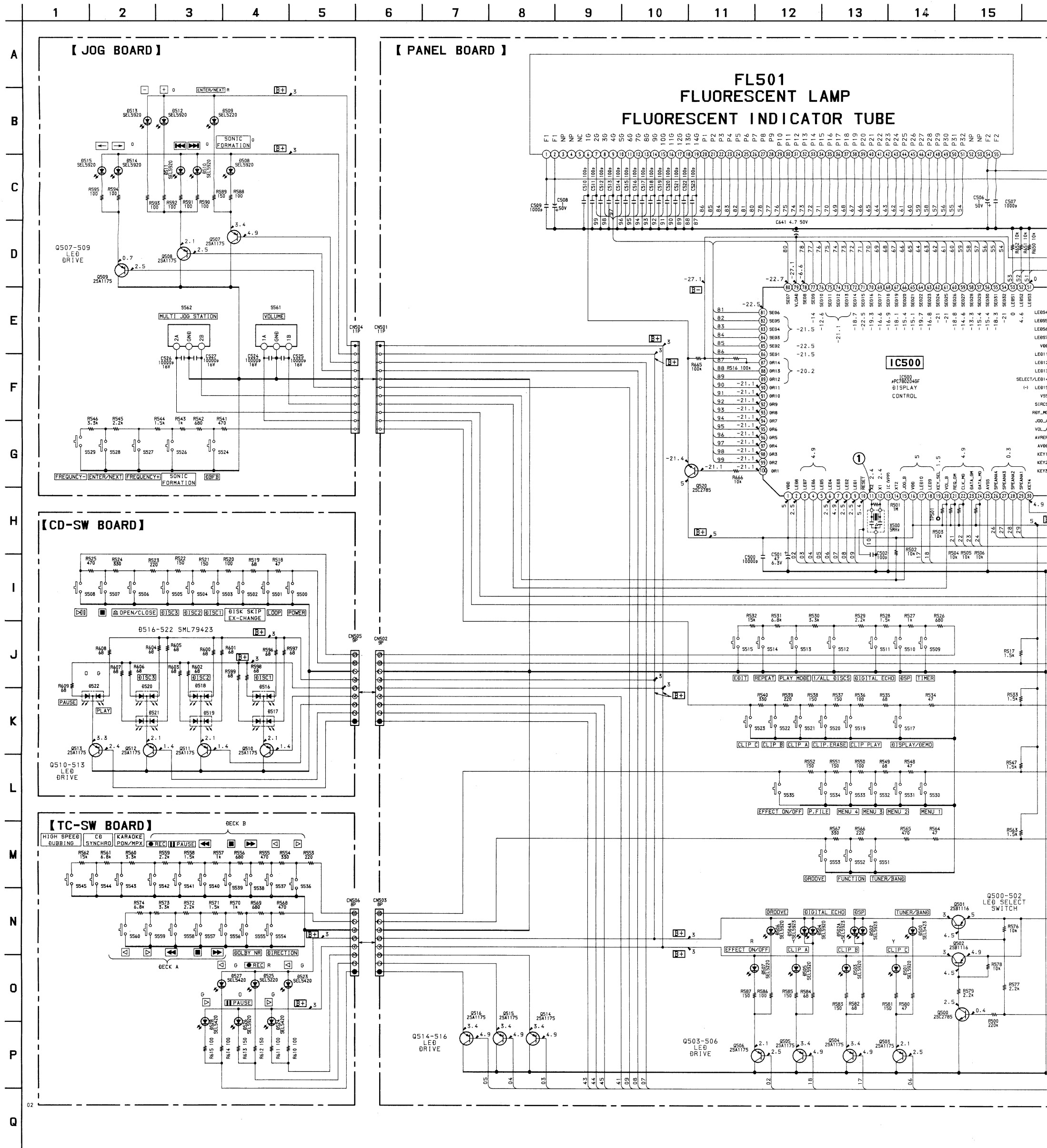
Note :
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Note :
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- **B+** : B+ Line
- **B-** : B- Line
- $\square$: adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM
() : AM
- Voltages are taken with a VOM (Input impedance $10M \Omega$).
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 $\Rightarrow$: FM $\Rightarrow$: PB (DECK A)
 $\Rightarrow$: CD $\Rightarrow$: PB (DECK B)
 $\Rightarrow$: REC (DECK B)
- Abbreviation
CND : Canadian HK : Hong Kong
AUS : Australian JE : Tourist
AR : Argentine IA : Indonesia
MX : Mexican G : German
TH : Thailand IT : Italian
EA : Saudi Arabia EE : East European
MY : Malaysia TW : Taiwan
SP : Singapore

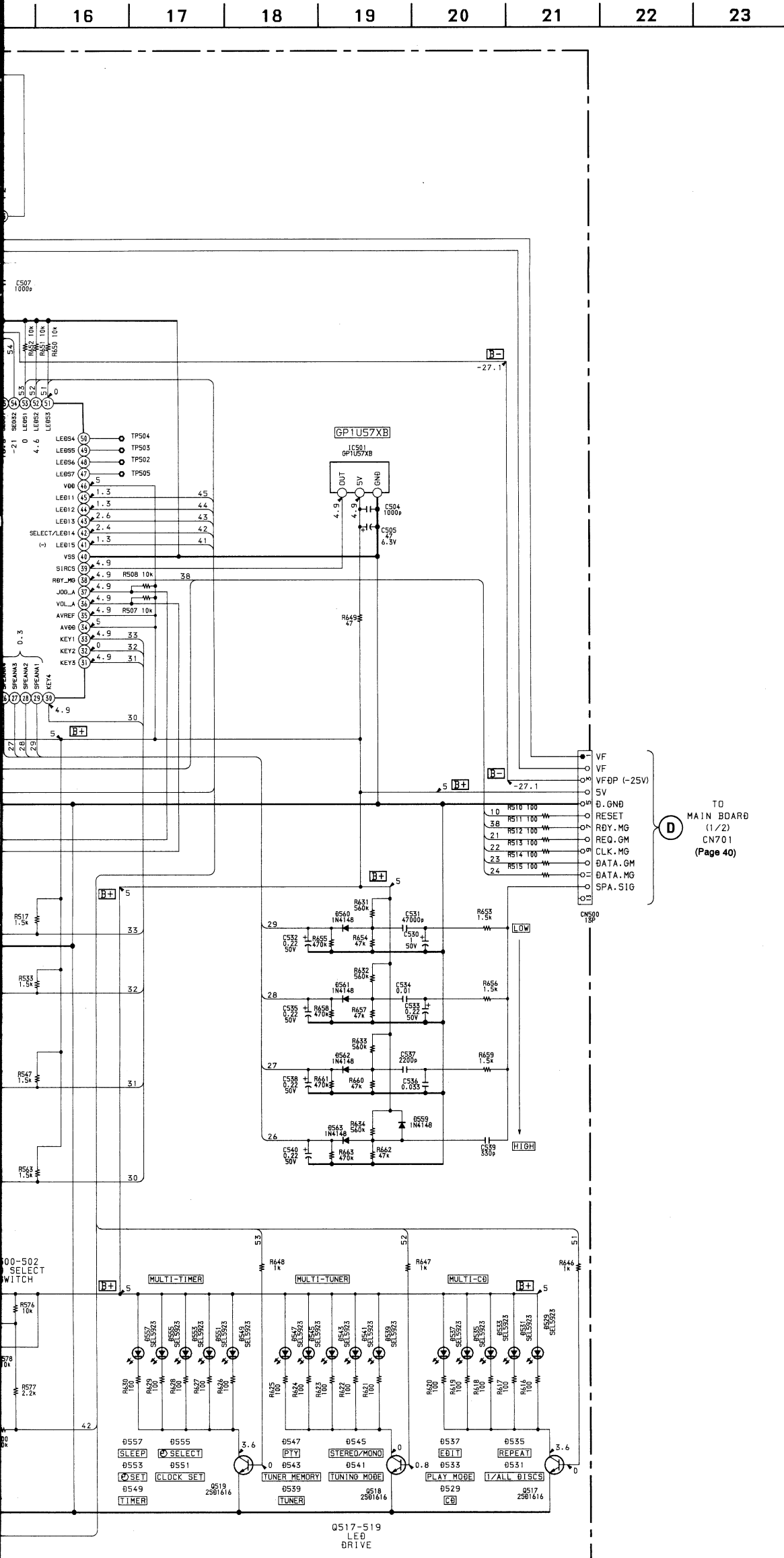


6-8. SCHEMATIC DIAGRAM – PANEL SECTION –

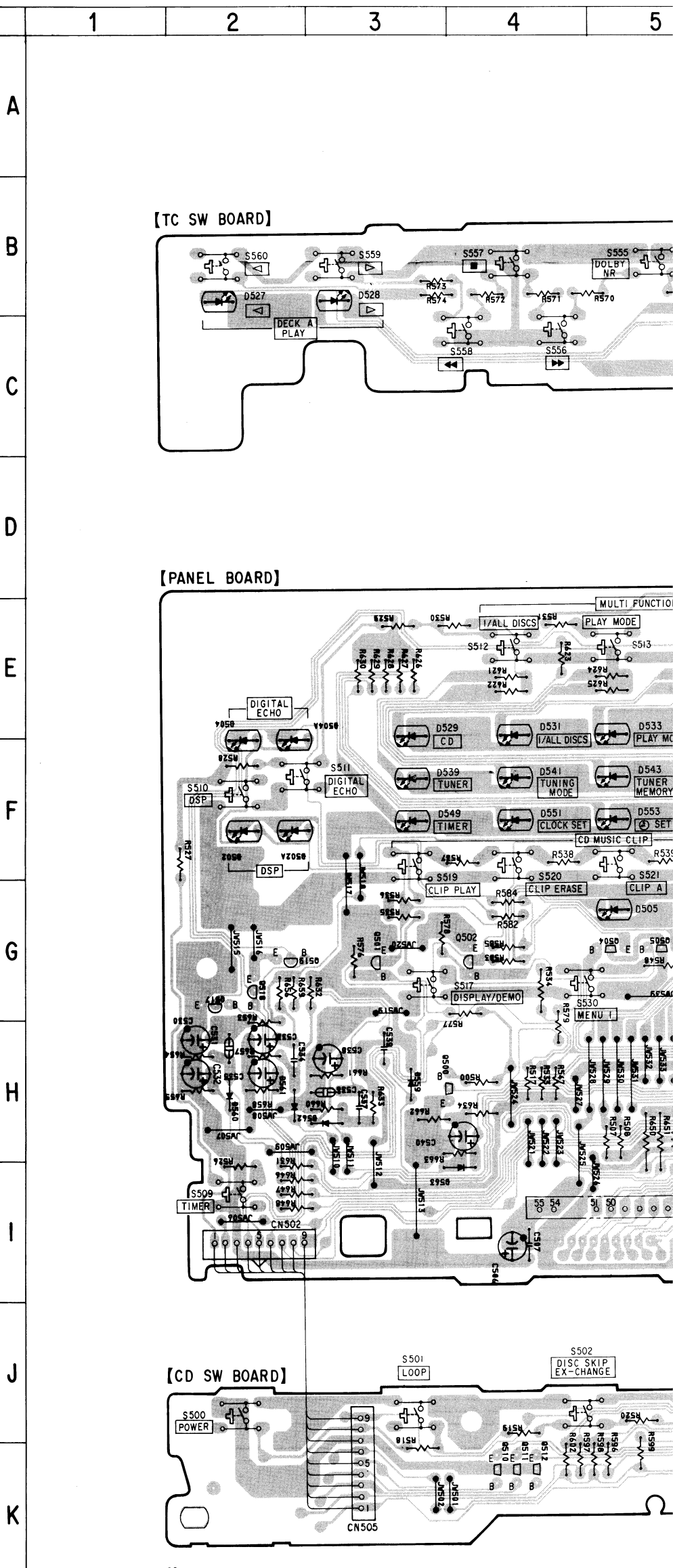


Note :

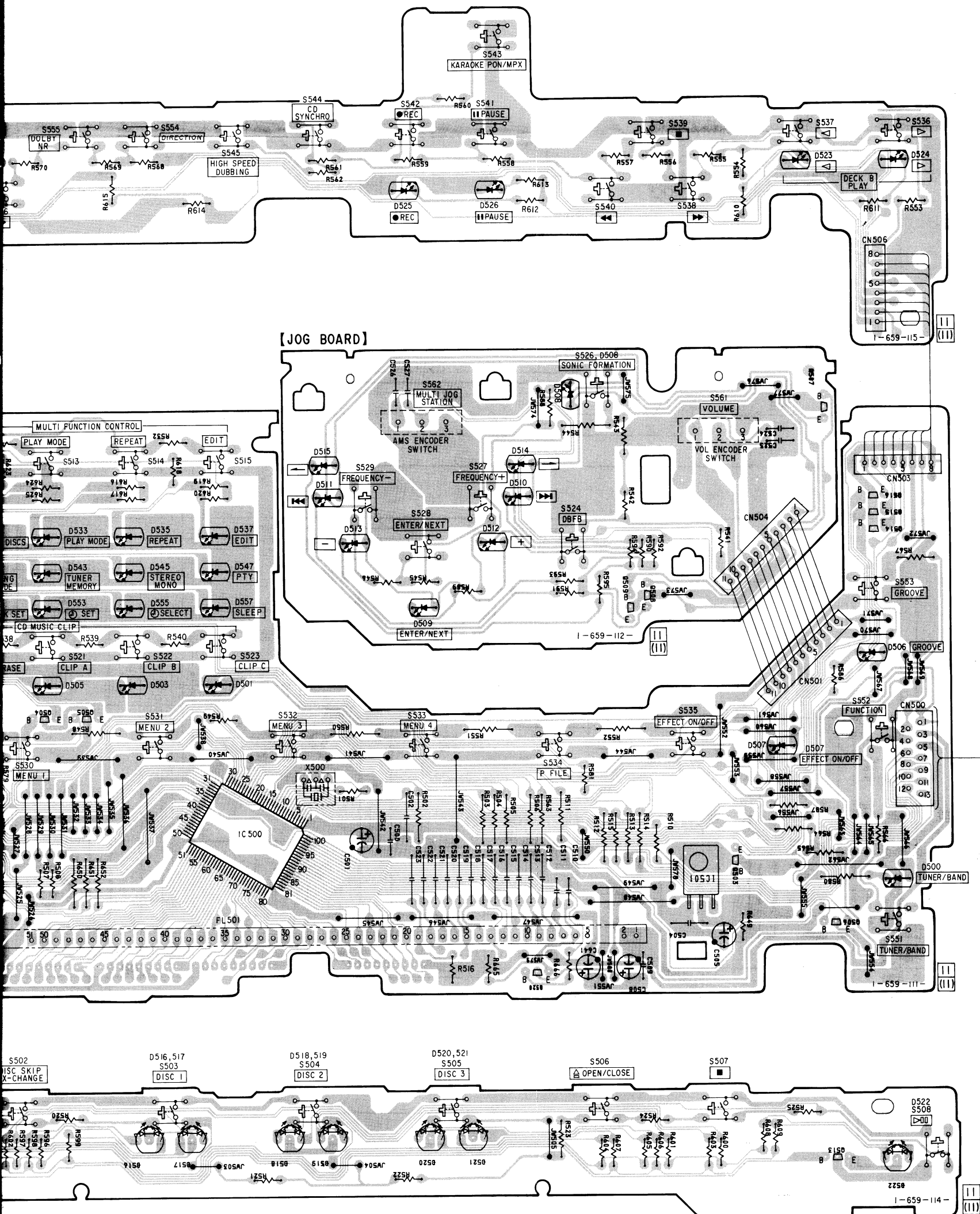
- All capacitors are in μF unless otherwise noted. pF : $\mu \mu F$
50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
- Δ : internal component.
- **B+** : B+ Line
- **B-** : B - Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
no mark : FM
- Voltages are taken with a VOM (Input impedance $10M \Omega$).
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.



6-9. PRINTED WIRING BOARDS - PANEL SECTION -



5	6	7	8	9	10	11	12	13
---	---	---	---	---	----	----	----	----



• SEMICONDUCTOR LOC.

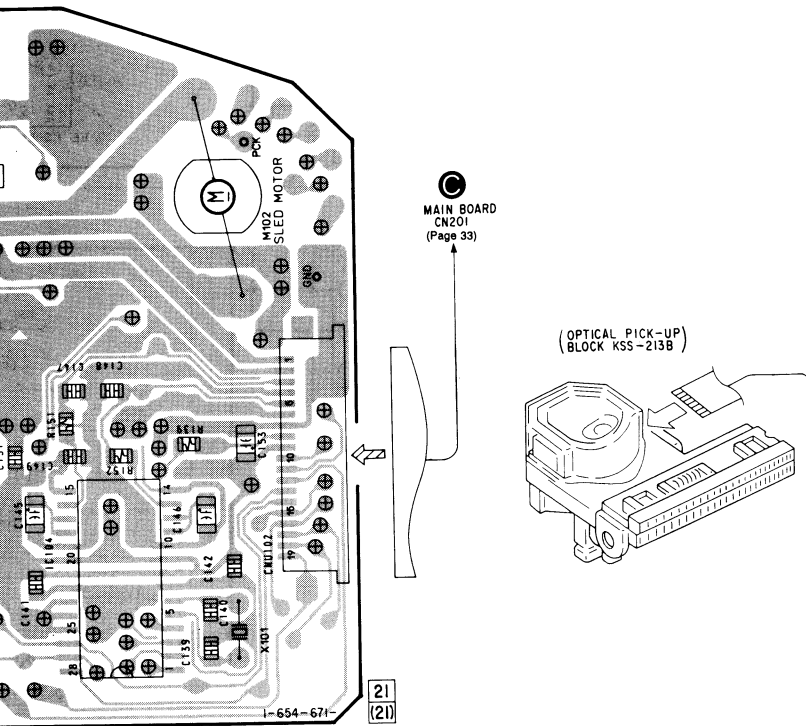
Ref. No.	Location	Ref. No.
D500	H - 12	D545
D501	G - 6	D547
D502	F - 2	D549
D502A	F - 2	D551
D503	G - 5	D553
D504	E - 2	D555
D504A	E - 2	D557
D505	G - 5	D559
D506	F - 12	D560
D507	G - 11	D561
D508	D - 9	D562
D509	F - 8	D563
D510	E - 9	
D511	E - 7	IC500
D512	F - 8	IC501
D513	F - 7	
D514	E - 9	
D515	E - 7	Q500
D516	K - 6	Q501
D517	K - 6	Q502
D518	K - 7	Q503
D519	K - 7	Q504
D520	K - 8	Q505
D521	K - 8	Q506
D522	K - 12	Q507
D523	B - 11	Q508
D524	B - 12	Q509
D525	C - 8	Q510
D526	C - 8	Q511
D527	B - 2	Q512
D528	B - 3	Q513
D529	E - 3	Q514
D531	E - 4	Q515
D533	E - 5	Q516
D535	E - 5	Q517
D537	E - 6	Q518
D539	F - 3	Q519
D541	F - 4	Q520
D543	F - 5	

Note:

- : parts extracted from the comp.
- ⊞ : Pattern on the side which is

3 14 15 16 17

【BD BOARD】(SIDE B)



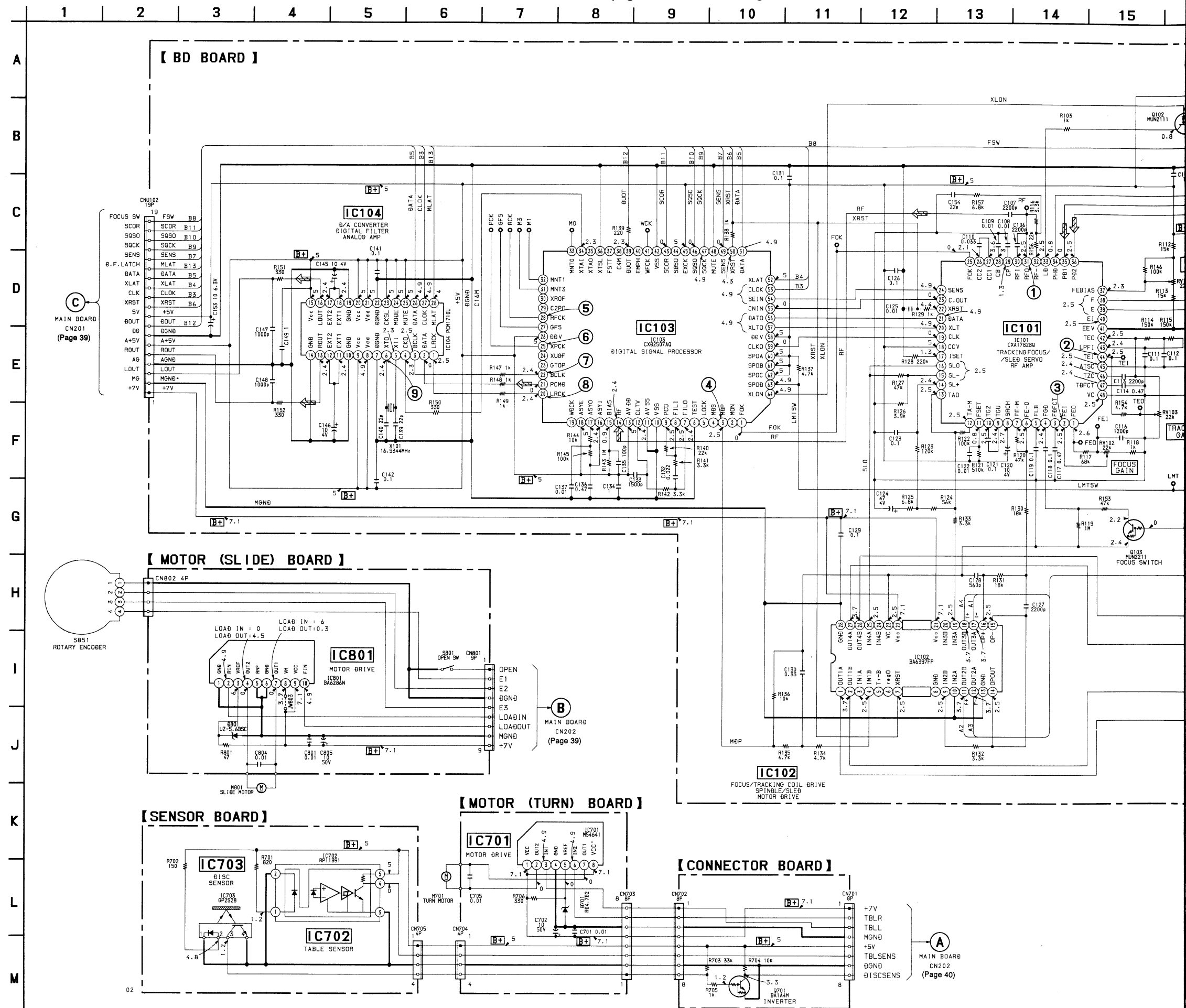
te:

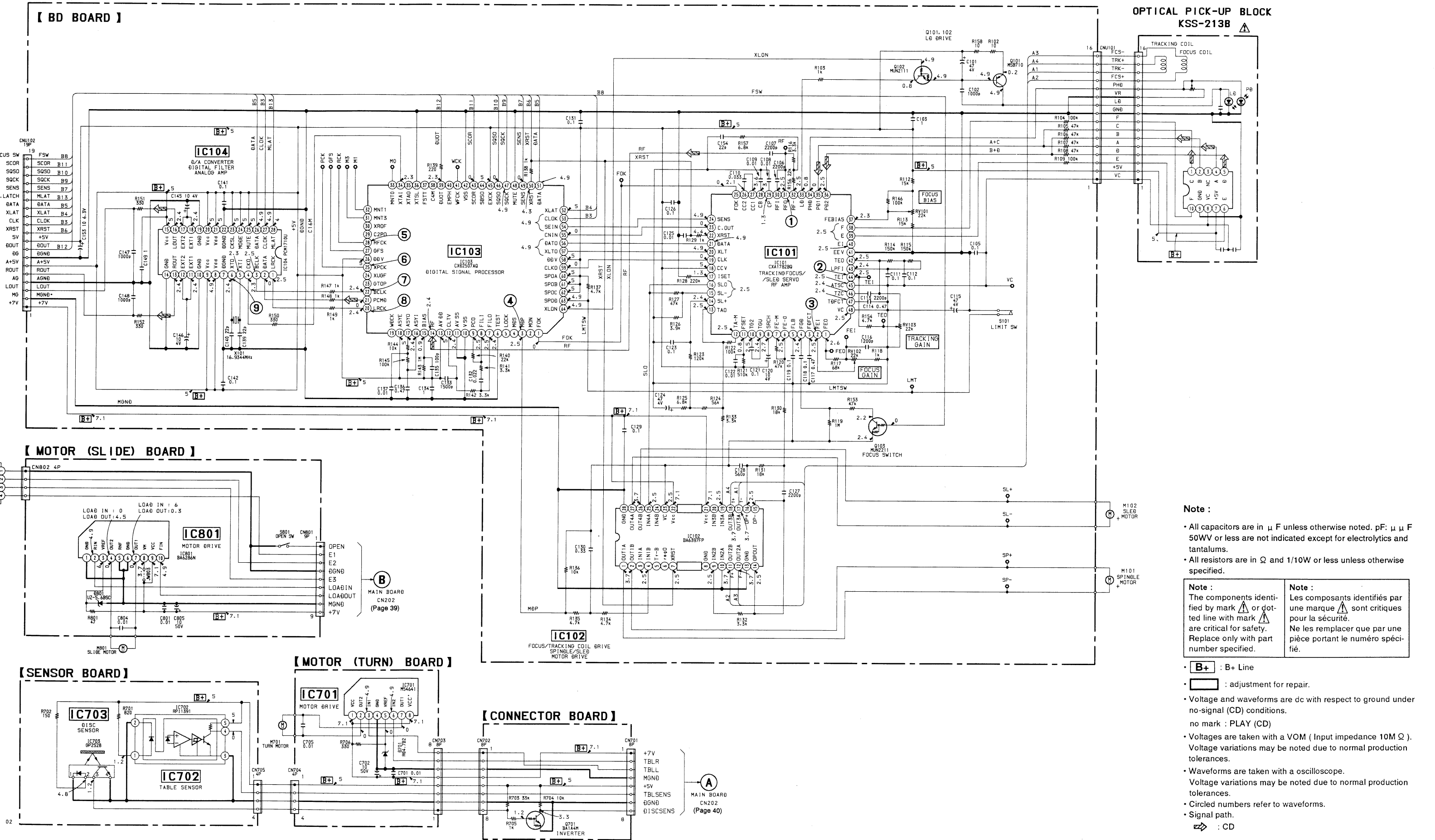
- : parts extracted from the component side.
- ⊗ : Through hole.
- : Pattern from the side which enables seeing.
(The other layers' patterns are not indicated)

caution :

- Pattern face side : Parts on the pattern face side seen from the Conductor Side) from the pattern face are indicated.
- Parts face side : Parts on the parts face side seen from the Component side) from the parts face are indicated.

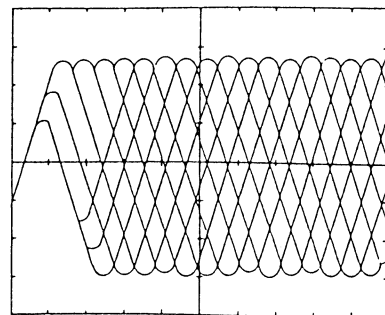
6-11. SCHEMATIC DIAGRAM – BD SECTION – • Refer to page 52 for Waveforms. • Refer to page 73 for IC Block Diagrams.



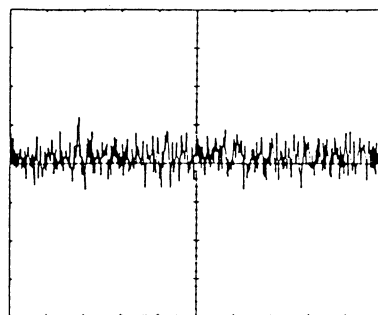


• WAVEFORMS – BD Section –

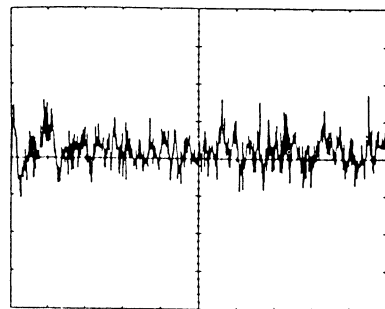
① IC101 ① pin 1.4Vp-p



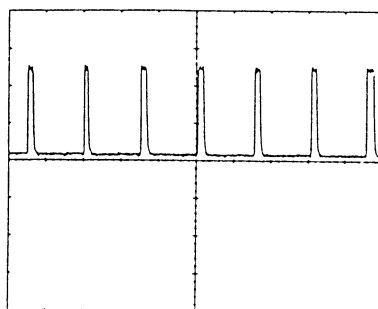
② IC101 ④ pin 8mVp-p 0.2ms/DIV



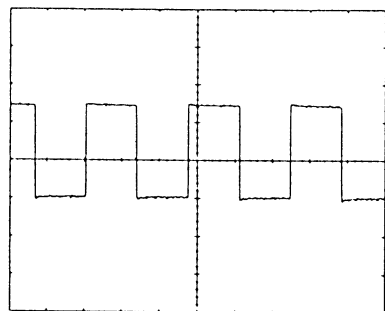
③ IC101 ② pin 20mVp-p 2ms/DIV



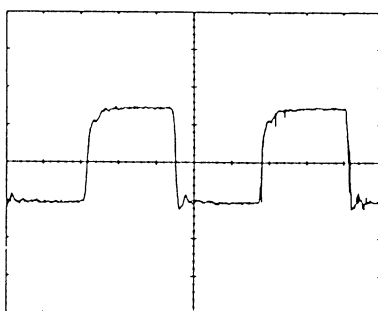
④ IC103 ③ pin 2.4Vp-p 7.5μsec



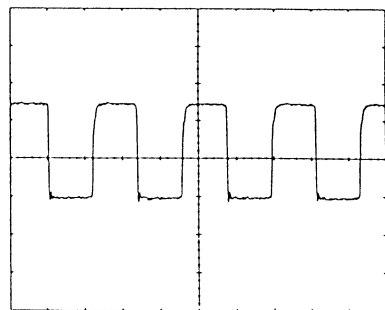
⑤ IC103 ② pin 5.1Vp-p 137μsec



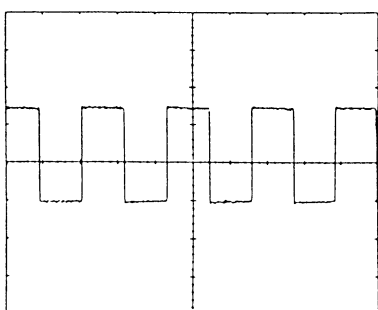
⑥ IC103 ⑤ pin 5.1Vp-p 232.7nsec



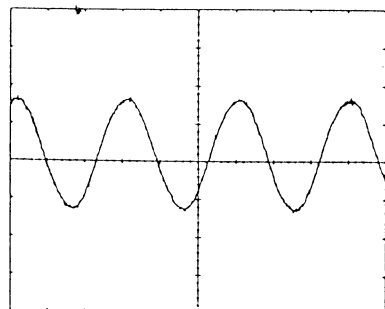
⑦ IC103 ② pin 5.1Vp-p 472.7nsec



⑧ IC103 ② pin 5.1Vp-p 23μsec



⑨ IC104 ⑥ pin 3Vp-p 16.9344MHz



Note :

- All capacitors are in μ F unless otherwise noted. pF: μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.
- Δ : internal component.
- $\square$: panel designation.

Note :

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Note :

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- $B+$: B+ Line

- $\square$: adjustment for repair.

- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.

- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.

- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.

- Signal path.

$\Rightarrow$: FM

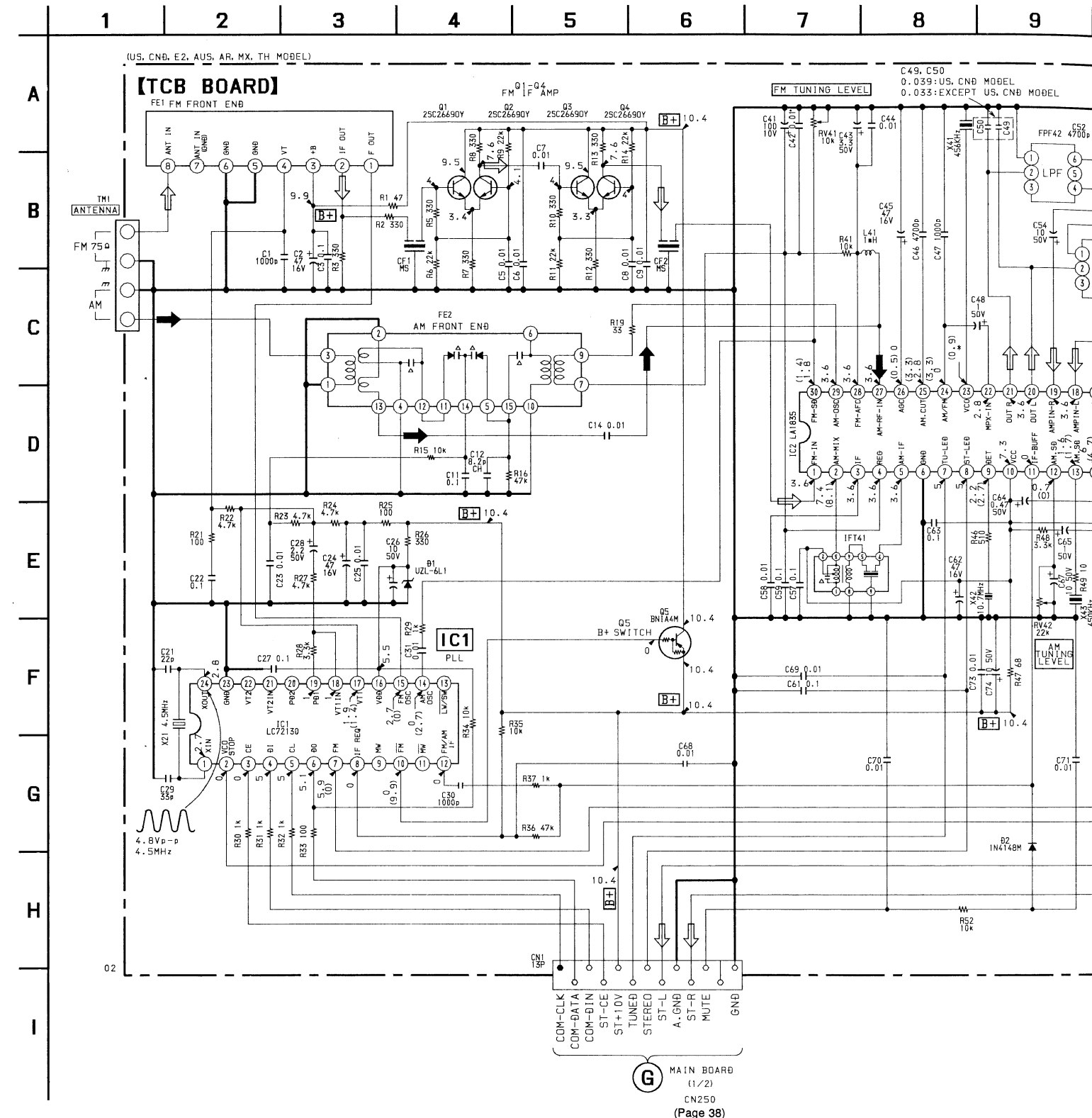
$\Rightarrow$: AM

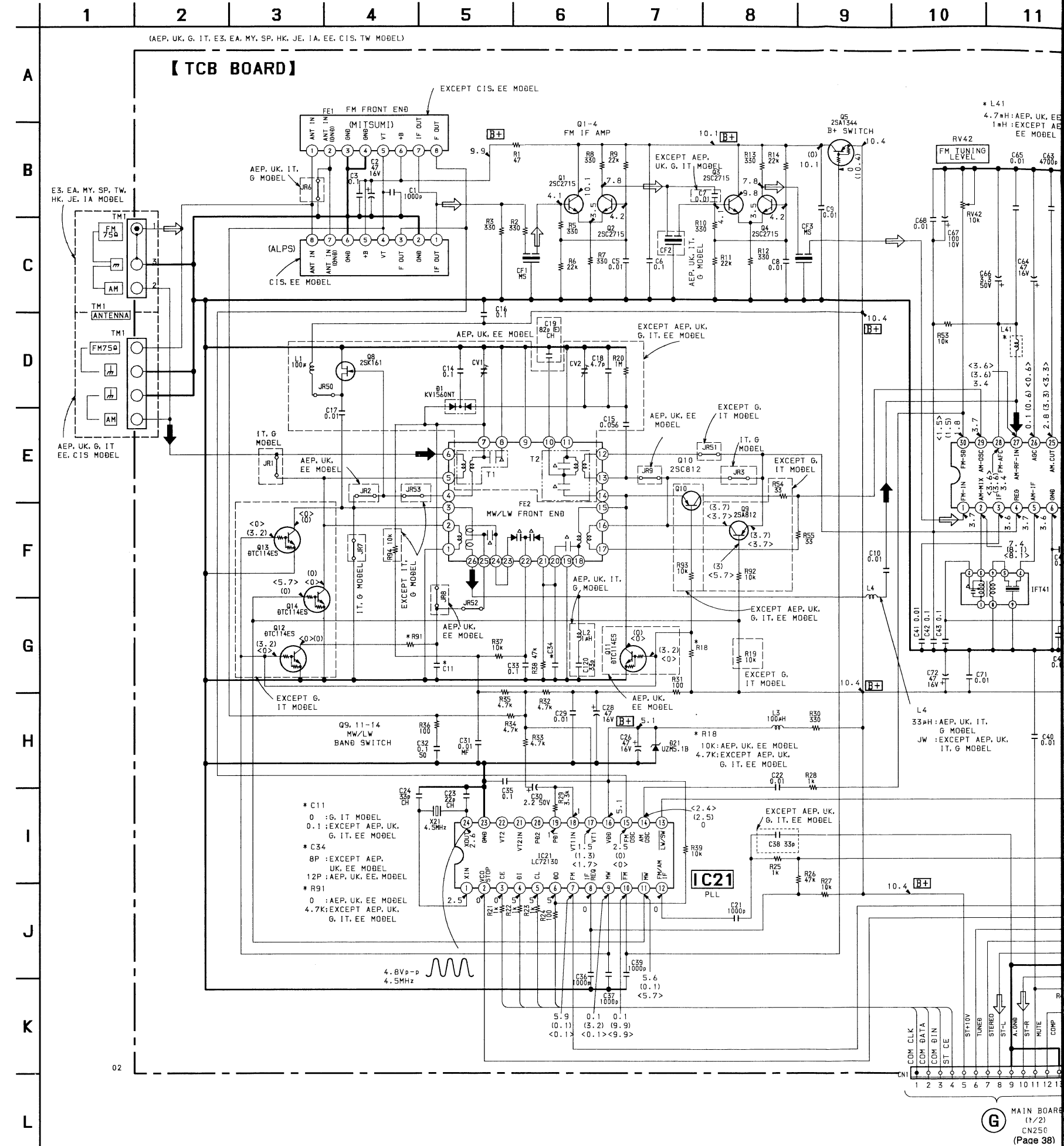
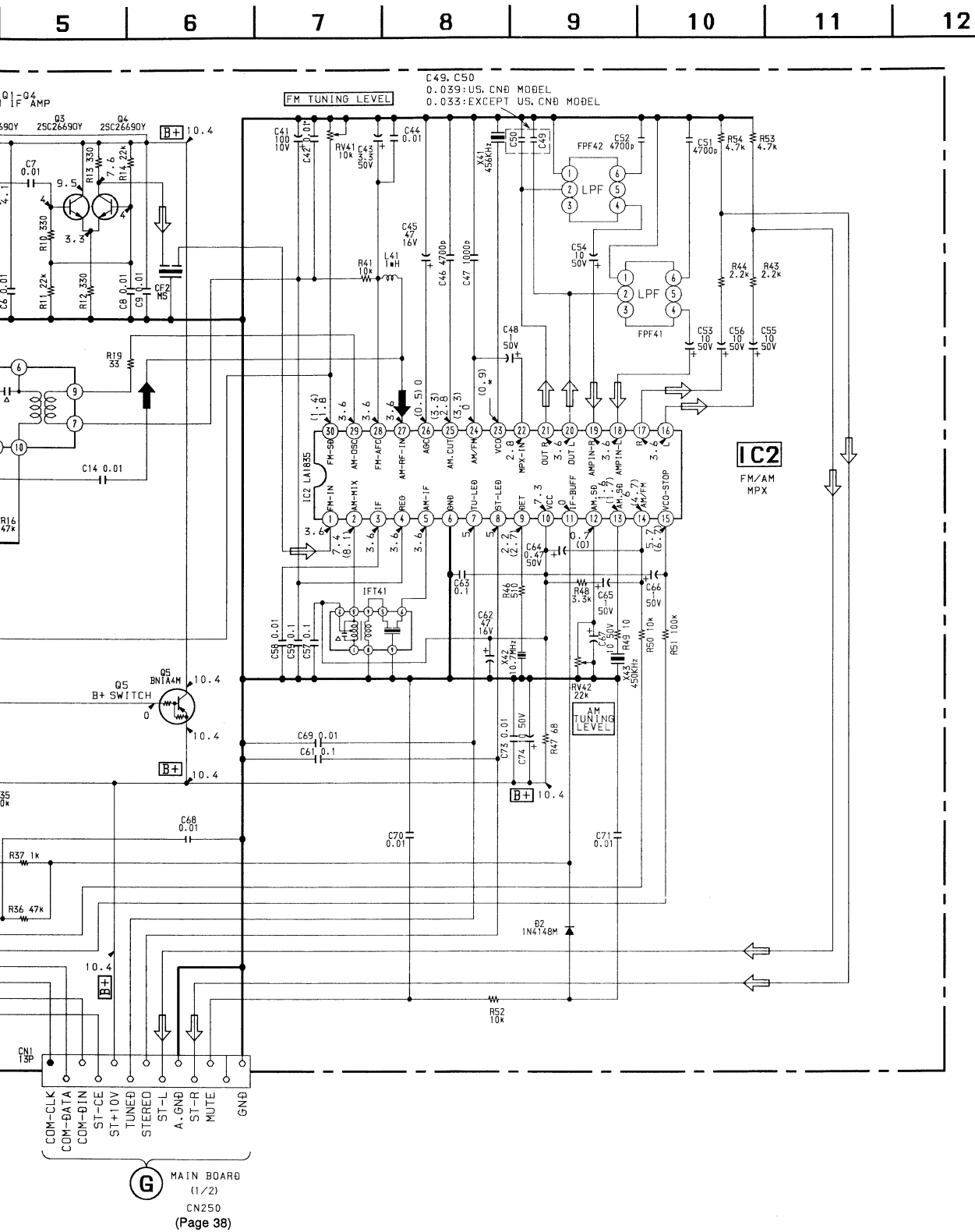
- Abbreviation

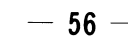
CND : Canadian
IT : Italian
G : German
EE : East European
IA : Indonesia
EA : Saudi Arabia
HK : Hong Kong
SP : Singapore
MY : Malaysia
AUS : Australian

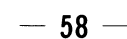
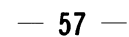
JE : Tourist
AR : Argentine
E2 : Tuner sections SW
E3 : Tuner sections SW
BAND do not exist.
BAND exist.
MX : Mexican
TH : Thailand
TW : Taiwan

6-12. SCHEMATIC DIAGRAM – TCB SECTION – (US, CND, E2, AUS, AR, MX, TH MODEL) • Refer to page 74 for IC Block Diagram





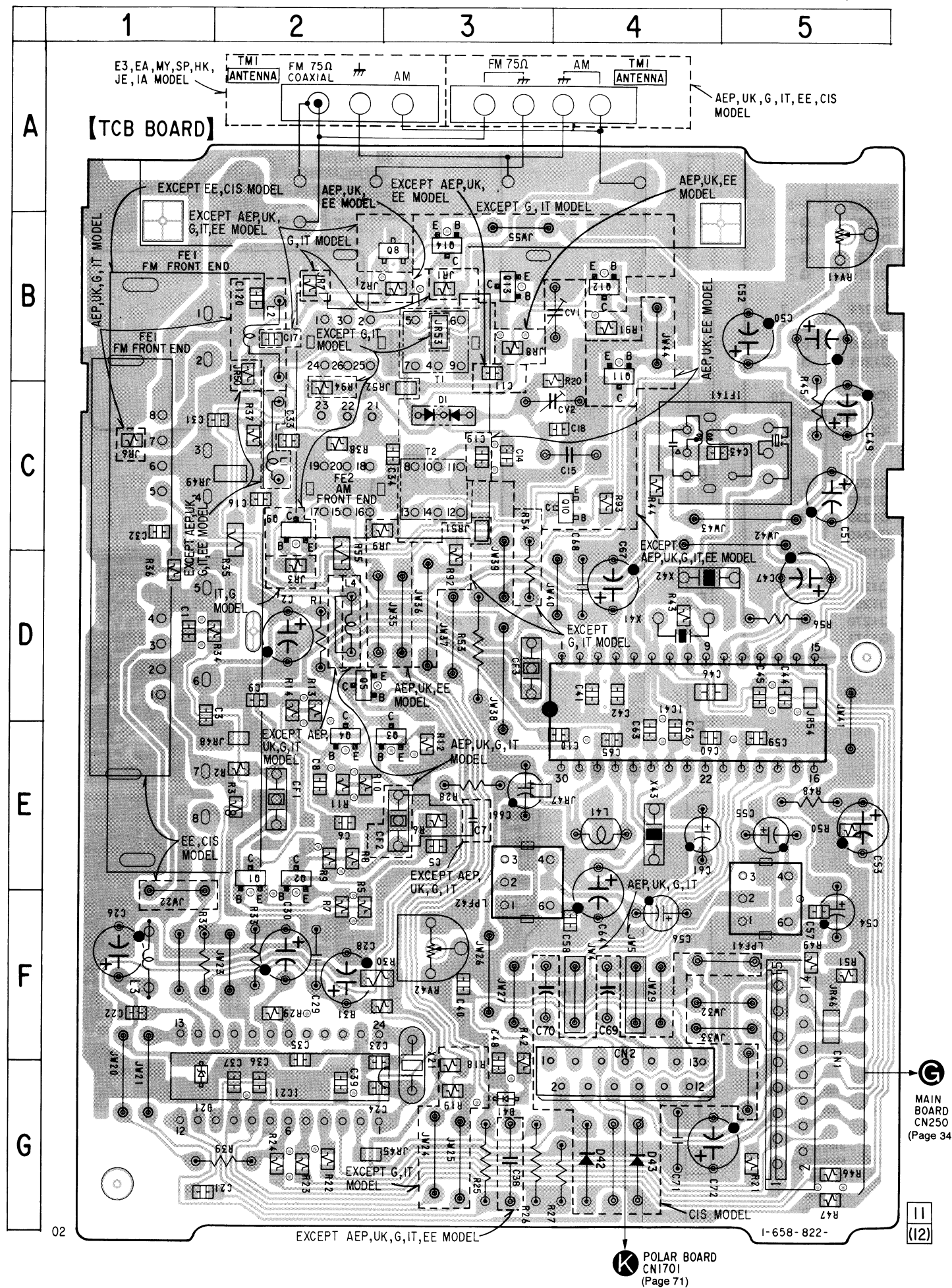




5

● SEMICONDUCTOR LOCATION

Ref. No.	Location
D1	F-2
D2	E-3
IC1	F-3
IC2	C-3
Q1	E-2
Q2	E-2
Q3	D-3
Q4	D-2
Q5	D-3



● SEMICONDUCTOR LOCATION

Ref. No.	Location
D1	C-3
D21	G-1
D41	G-3
D42	G-4
D43	G-4
Q1	E-2
Q2	E-2
Q3	E-3
Q4	E-2
Q5	D-2
Q8	B-3
Q9	C-2
Q10	C-4
Q11	B-4
Q12	B-4
Q13	B-3
Q14	B-3
IC21	G-2
IC41	D-4

Note:

- : parts extracted from the component side.
- ⋯ : Pattern on the side which is seen.

Abbreviation

- G : German
- IT : Italian
- EE : East European
- EA : Saudi Arabia
- MY : Malaysia
- SP : Singapore
- HK : Hong Kong
- JE : Tourist
- IA : Indonesia
- TW : Taiwan

Note:

- : parts extracted from the component side.
- ⋯ : Pattern on the side which is seen.

- Abbreviation
- CND : Canadian
- AUS : Australian
- AR : Argentine
- MX : Mexican
- TH : Thailand

Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.

Note : The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.	Note : Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
---	---

-  : B+ Line
-  : B- Line
-  : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM
- Voltages are taken with a VOM (Input impedance 10M Ω).
Voltage variations may be noted due to normal production tolerances.
- Signal path.
 : FM
- Abbreviation
CND : Canadian HK : Hong Kong
AUS : Australian JE : Tourist
AR : Argentine IA : Indonesia
MX : Mexican G : German
TH : Thailand IT : Italian
EA : Saudi Arabia EE : East European
MY : Malaysia TW : Taiwan
SP : Singapore

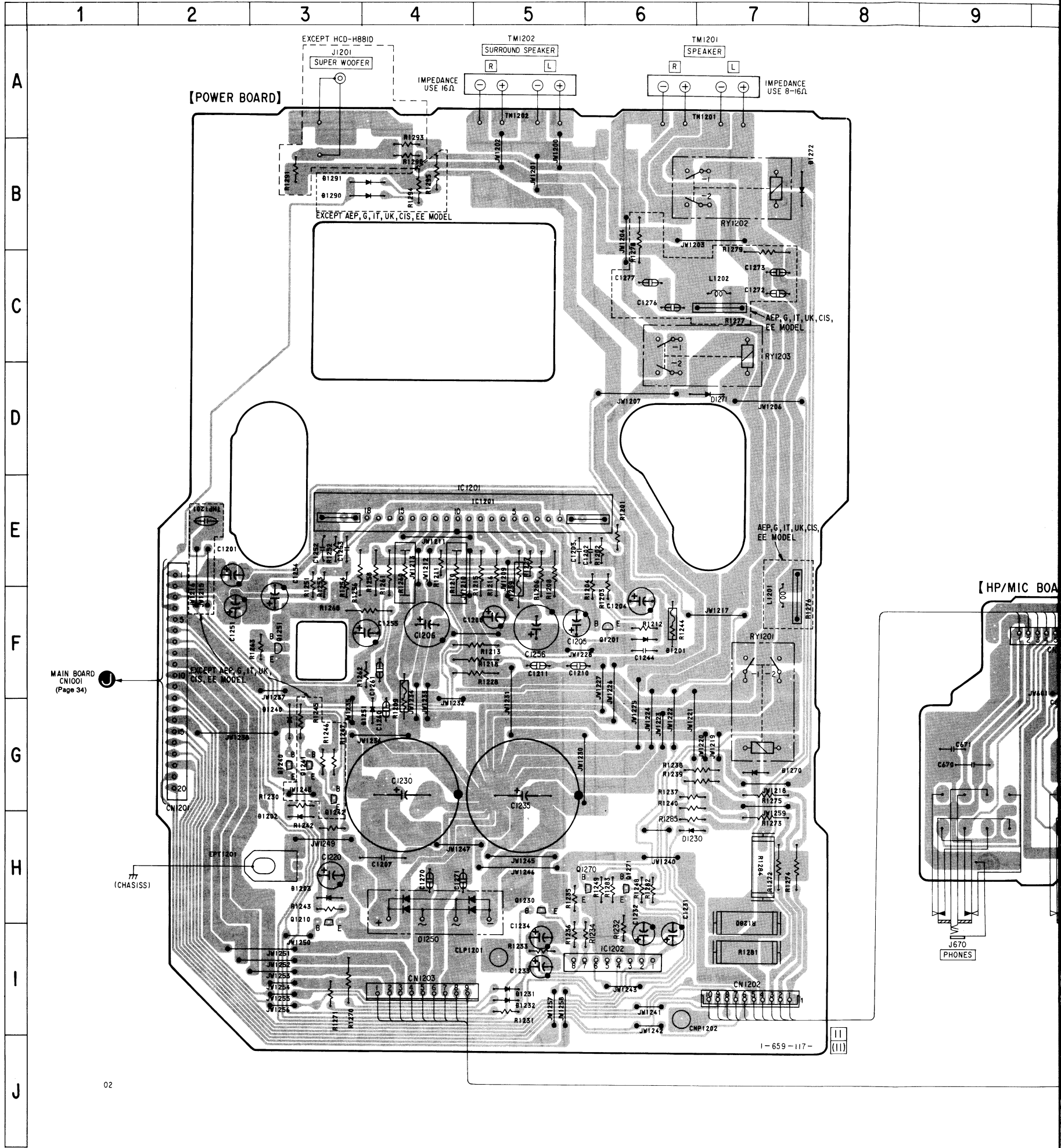
• SEMICONDUCTOR LOCATION

Ref. No.	Location
D1201	F - 6
D1202	H - 3
D1203	H - 3
D1230	H - 6
D1231	I - 5
D1232	I - 5
D1240	G - 3
D1250	H - 4
D1251	G - 4
D1270	G - 7
D1271	D - 7
D1272	B - 7
D1290	B - 4
D1291	B - 4
IC670	G - 10
IC1201	E - 4
IC1202	I - 6
Q1201	F - 6
Q1210	H - 3
Q1230	H - 5
Q1240	G - 3
Q1241	G - 3
Q1242	G - 3
Q1251	F - 3
Q1270	H - 6
Q1271	H - 6

Note:

-  : parts extracted from the component side.
-  : Pattern on the side which is seen.
- Abbreviation
CND : Canadian SP : Singapore
AUS : Australian HK : Hong Kong
AR : Argentine JE : Tourist
MX : Mexican IA : Indonesia
TH : Thailand G : German
EA : Saudi Arabia IT : Italian
MY : Malaysia EE : East European

6-14. PRINTED WIRING BOARDS – POWER SECTION –



CTOR

ation

6

3

3

6

5

5

3

4

4

7

7

4

4

10

4

6

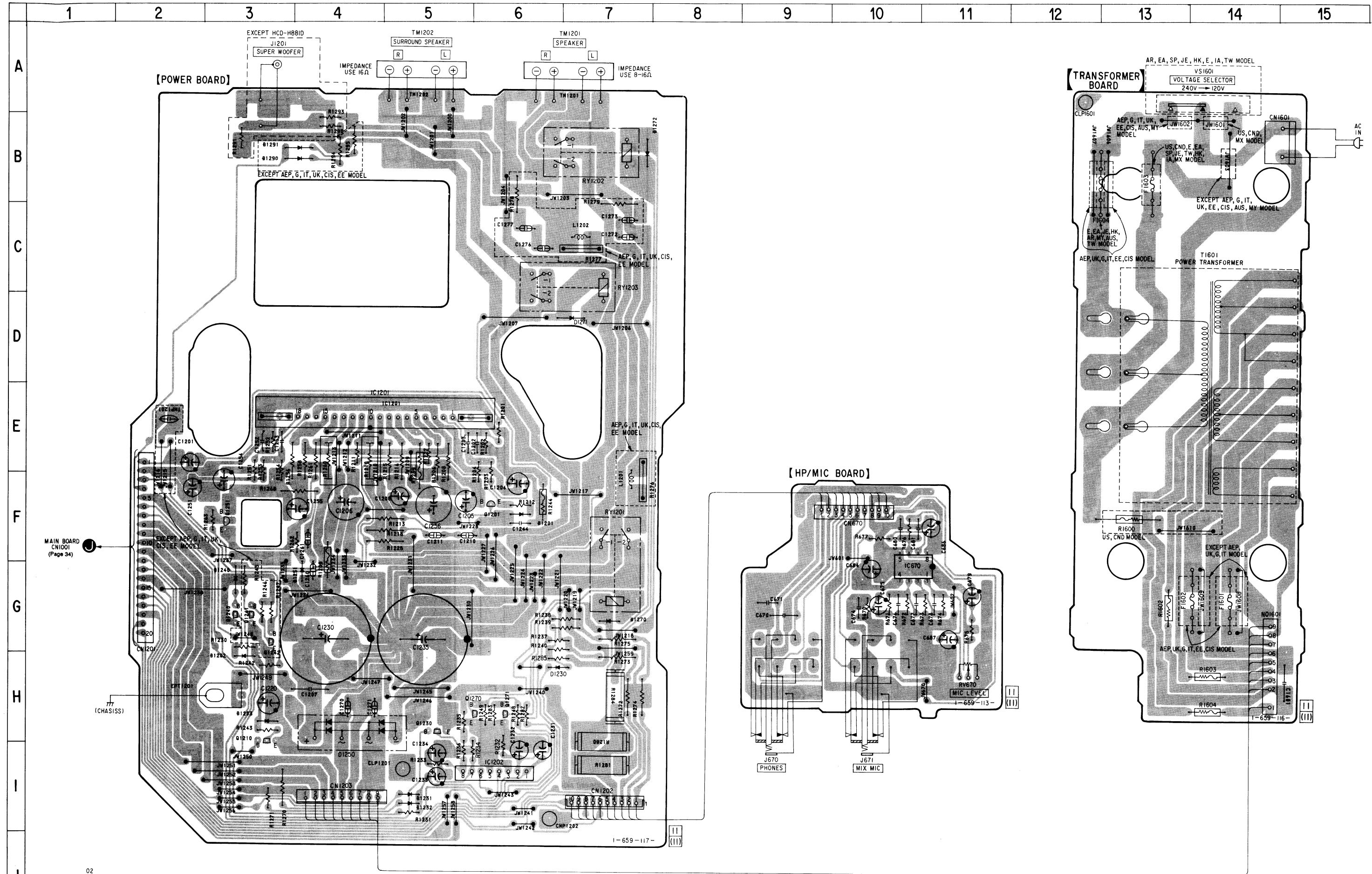
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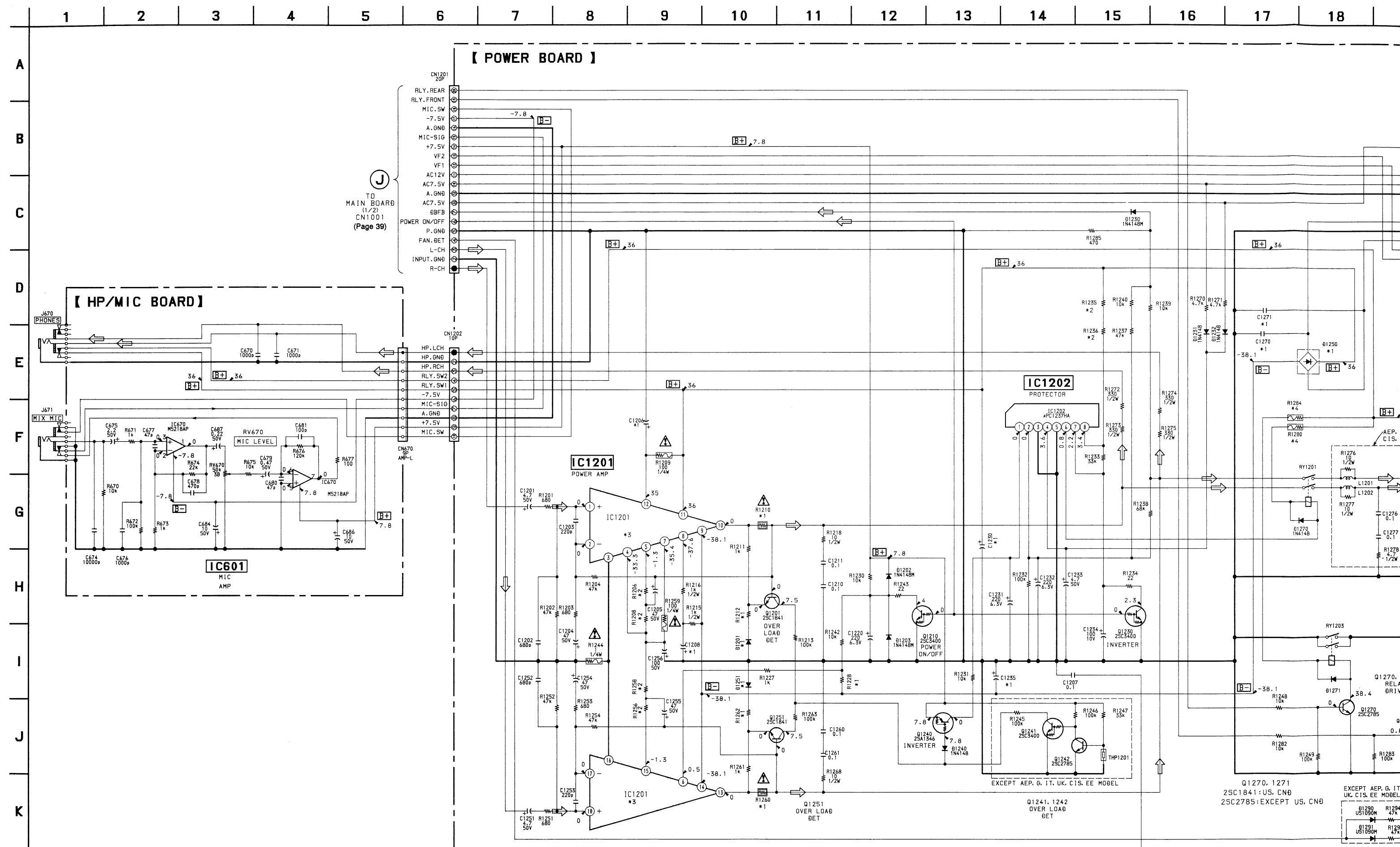
3

3

6

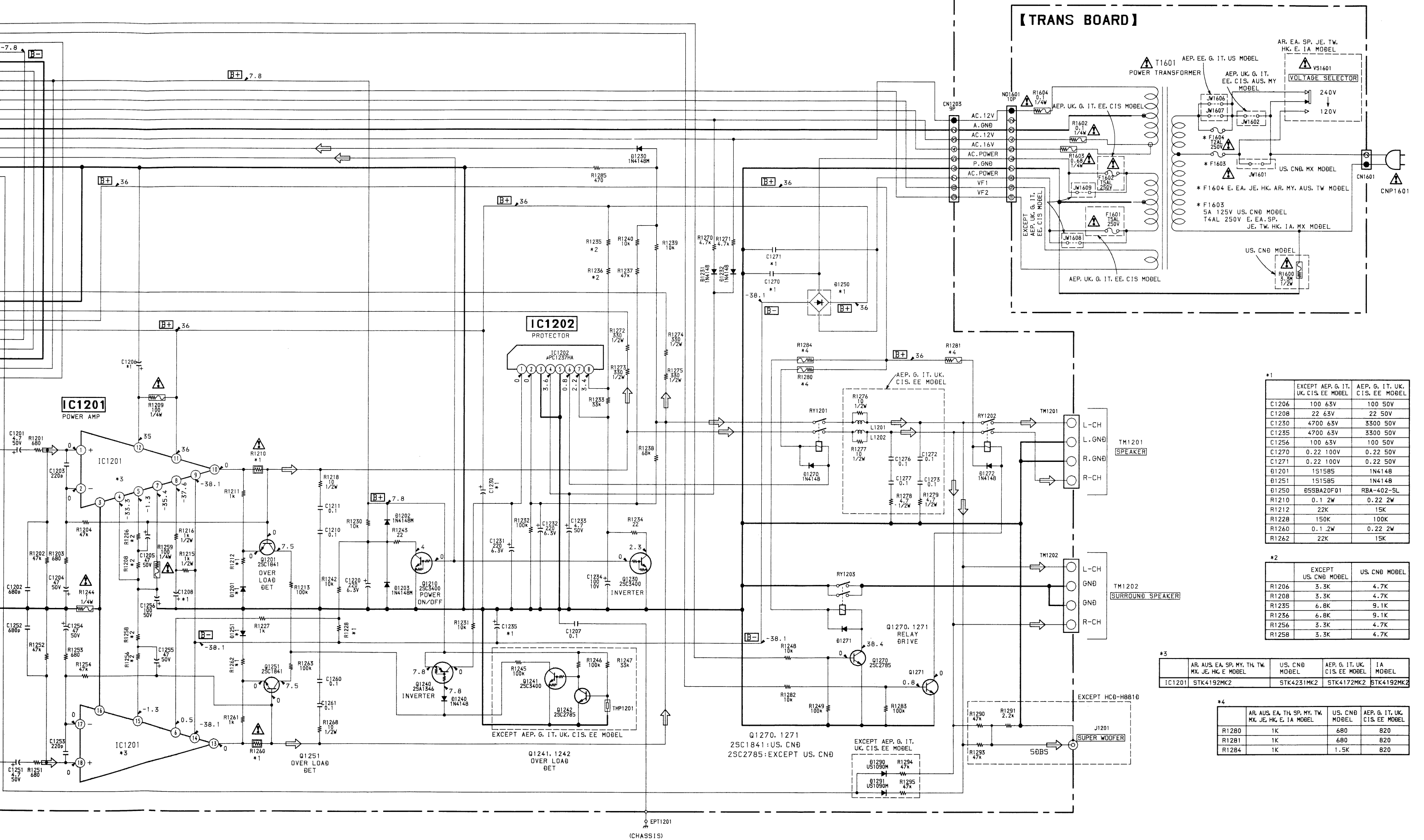
6





7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

ER BOARD]



#1

	EXCEPT AEP, G, IT, UK, CIS, EE MODEL	AEP, G, IT, UK, CIS, EE MODEL
C1206	100 63V	100 50V
C1208	22 63V	22 50V
C1230	4700 63V	3300 50V
C1235	4700 63V	3300 50V
C1256	100 63V	100 50V
C1270	0.22 100V	0.22 50V
C1271	0.22 100V	0.22 50V
01201	1S1585	1N4148
01251	1S1585	1N4148
01250	85SB20F01	RBA-402-SL
R1210	0.1 2W	0.22 2W
R1212	22K	15K
R1228	150K	100K
R1260	0.1 2W	0.22 2W
R1262	22K	15K

#2

	EXCEPT US, CNB MODEL	US, CNB MODEL
R1206	3.3K	4.7K
R1208	3.3K	4.7K
R1235	6.8K	9.1K
R1236	6.8K	9.1K
R1256	3.3K	4.7K
R1258	3.3K	4.7K

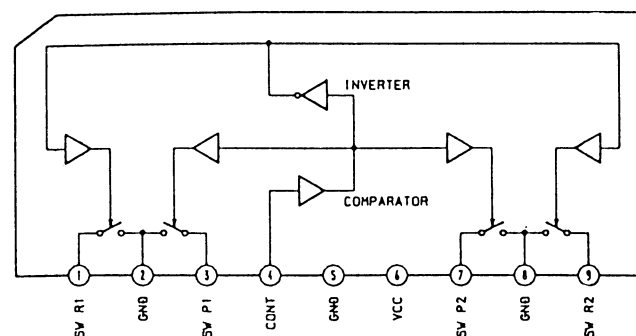
#3

	AR, AUS, EA, SP, MY, TH, TW, MX, JE, HK, E, IA MODEL	US, CNB MODEL	AEP, G, IT, UK, CIS, EE MODEL	IA MODEL
IC1201	STK4192MK2	STK4231MK2	STK4172MK2	STK4192MK2

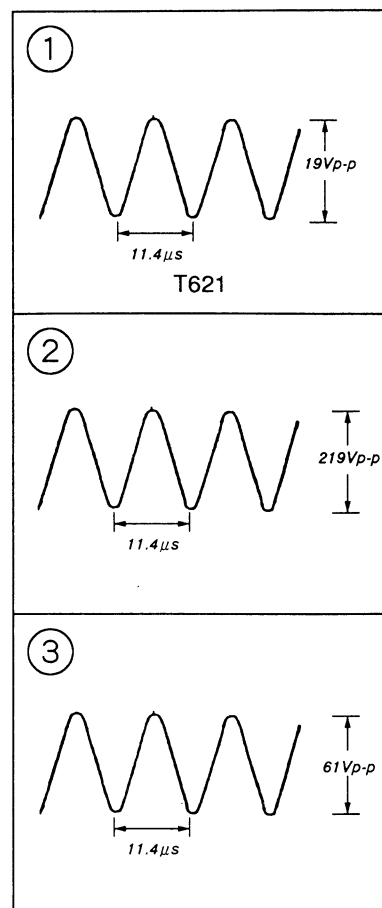
#4

	AR, AUS, EA, TH, SP, MY, TW, MX, JE, HK, E, IA MODEL	US, CNB MODEL	AEP, G, IT, UK, CIS, EE MODEL
R1280	1K	680	820
R1281	1K	680	820
R1284	1K	1.5K	820

• IC BLOCK DIAGRAM

IC602 μ PC1330HA

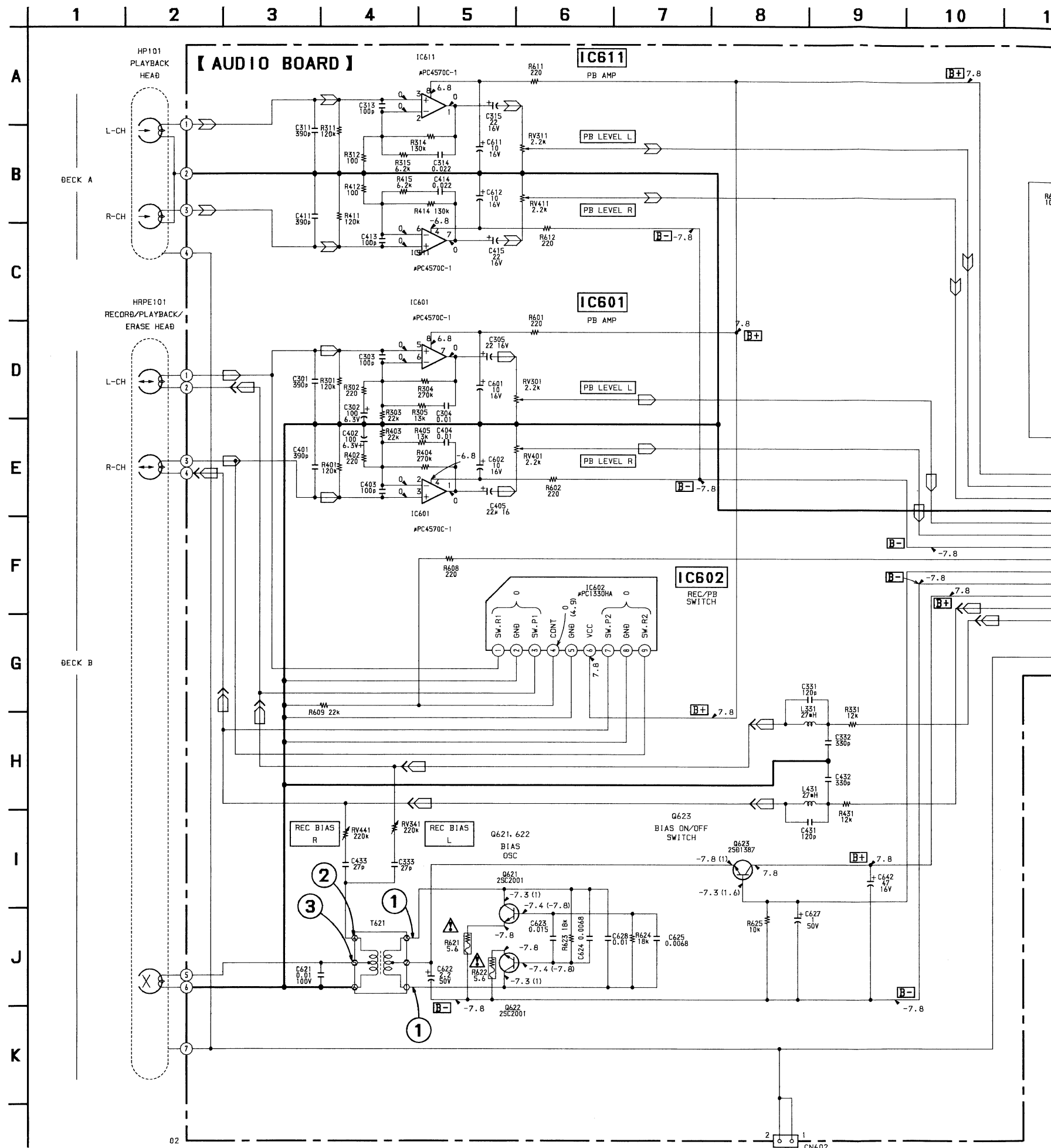
• WAVEFORMS – AUDIO SECTION –

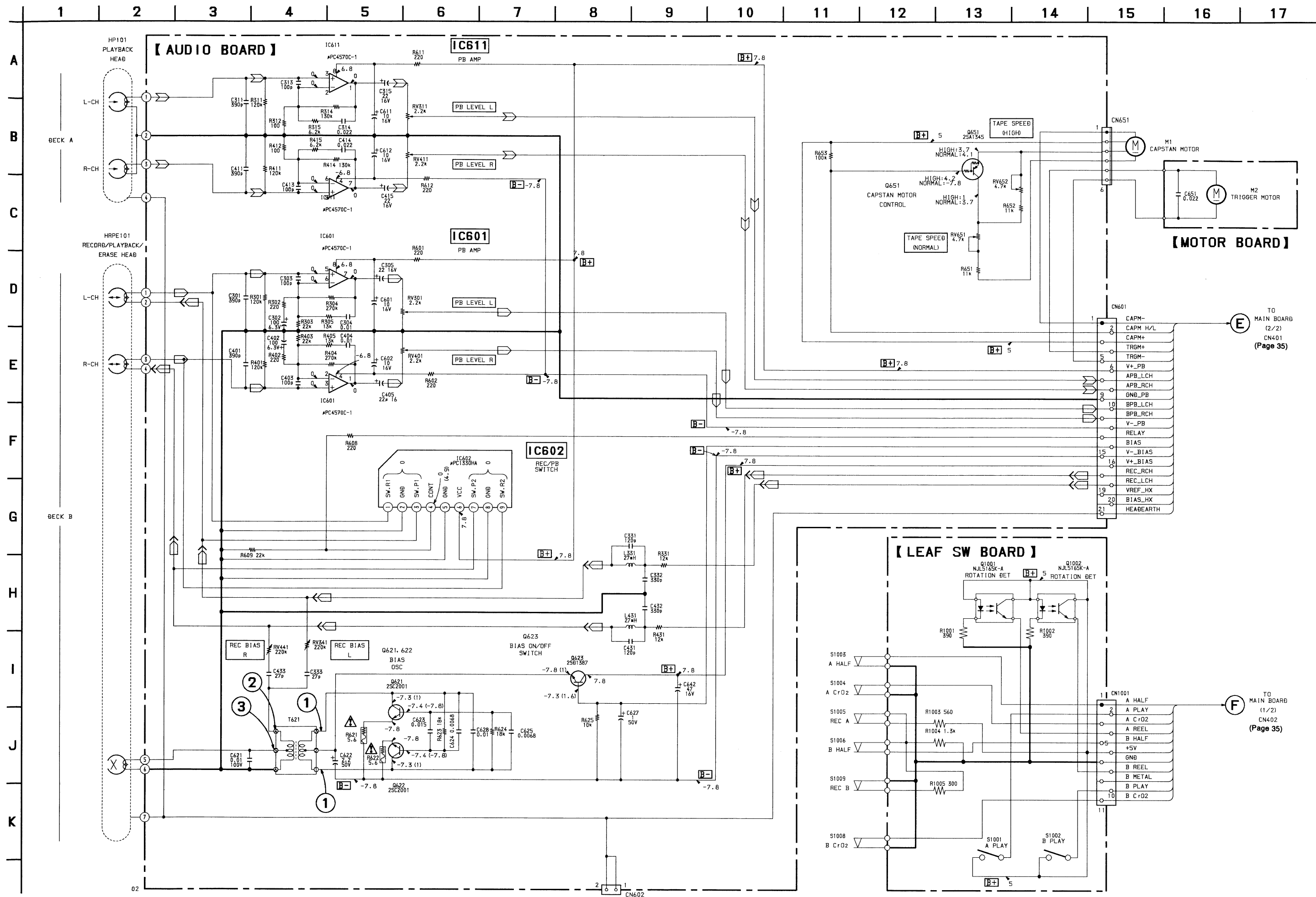


Note :

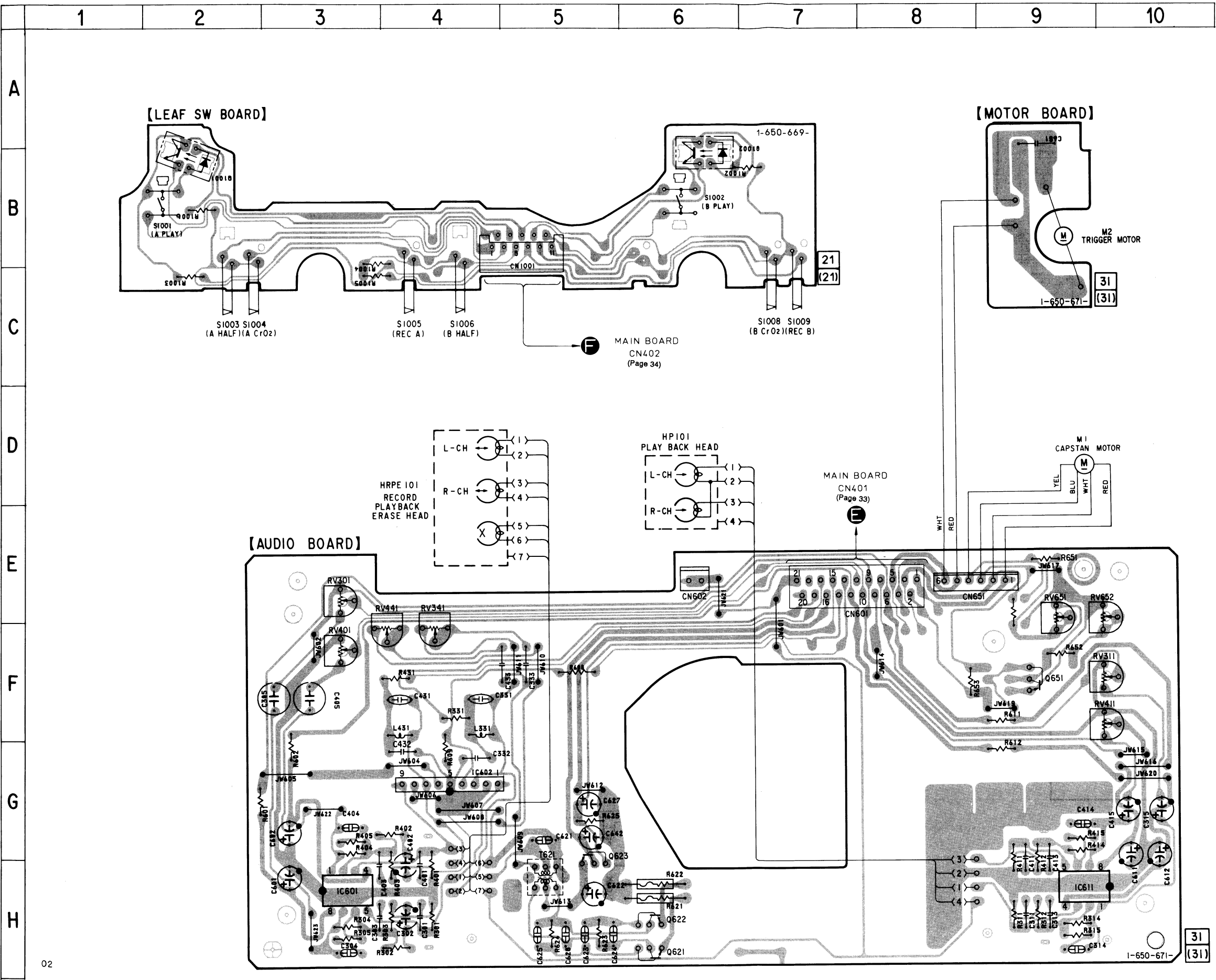
- All capacitors are in μ F unless otherwise noted. pF: μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
- **B+** : B+ Line
- **B-** : B- Line
- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
no mark : PLAY (TC)
() : REC
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
➤ : PB (DECK A)
➤ : PB (DECK B)
➤ : REC (DECK B)

6-16. SCHEMATIC DIAGRAM – AUDIO SECTION –





6-17. PRINTED WIRING BOARDS - AUDIO SECTION -



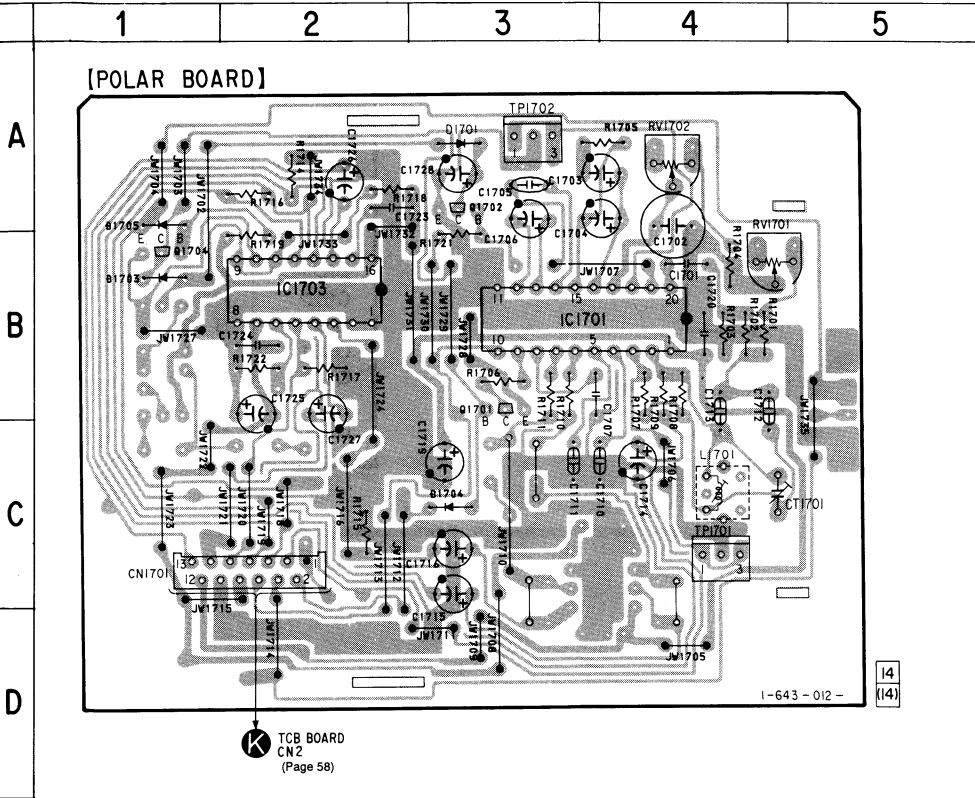
• SEMICONDUCTOR LOCATION

Ref. No.	Location
IC601	H - 3
IC602	G - 4
IC611	H - 9
Q621	H - 9
Q622	H - 9
Q623	H - 5
Q651	F - 9
Q1001	B - 2
Q1002	B - 6

Note:

- : parts extracted from the component side.
- ⊙ : Pattern on the side which is seen.

6-18. PRINTED WIRING BOARDS – POLAR SECTION –



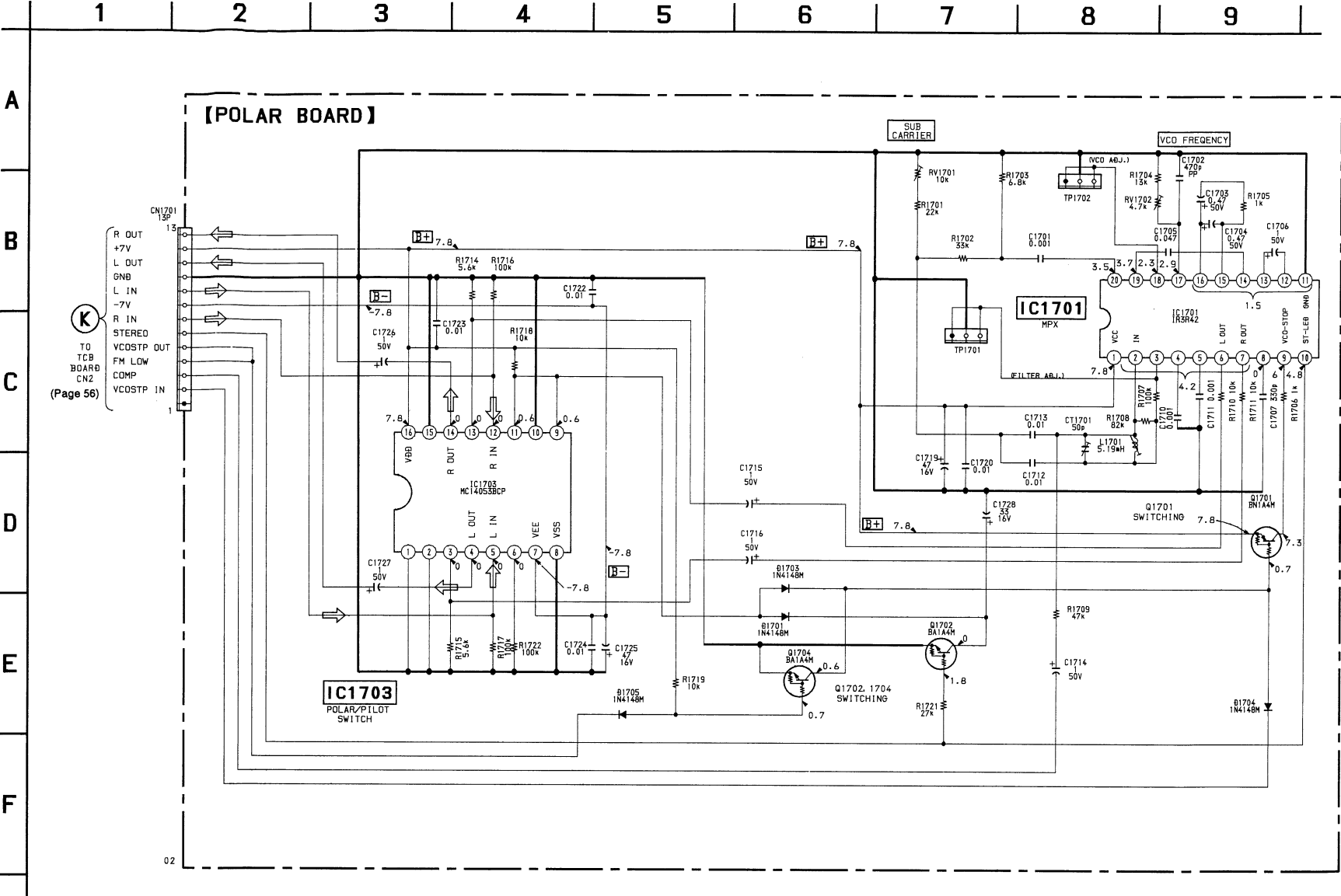
Note:

- : parts extracted from the component side.
- ⊗ : Pattern on the side which is seen.

• SEMICONDUCTOR LOCATION

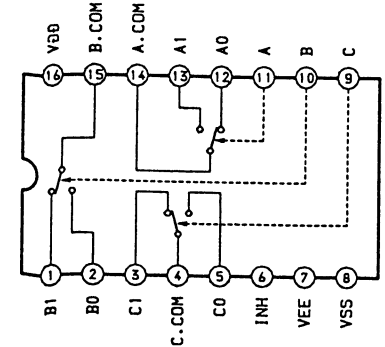
Ref. No.	Location
D1701	A - 3
D1703	B - 1
D1704	C - 3
D1705	A - 1
IC1701	B - 3
IC1703	A - 3
Q1701	B - 3
Q1702	B - 2
Q1704	B - 1

6-19. SCHEMATIC DIAGRAM – POLAR SECTION –



• IC BLOCK DIAGRAM

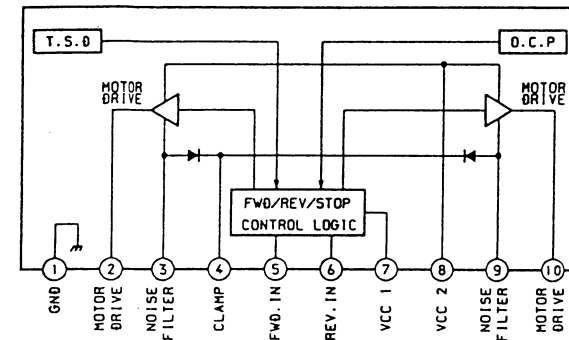
IC1703 μ PD4053BC



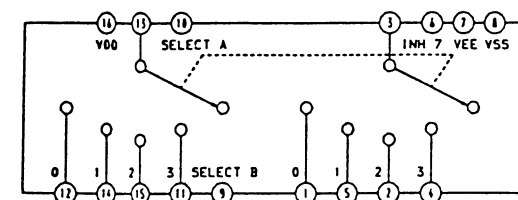
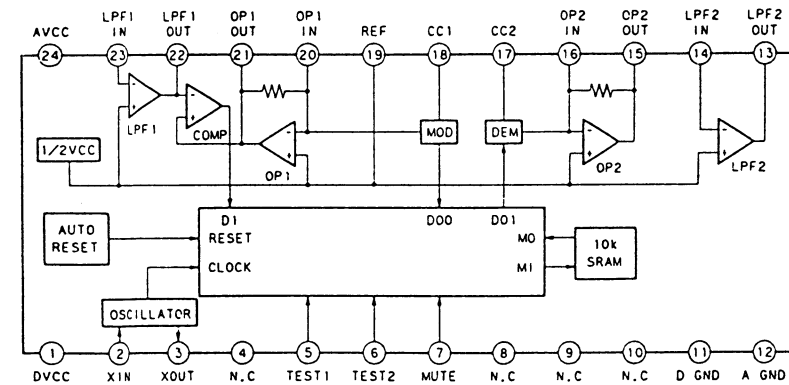
Note :

- All capacitors are in μ F unless otherwise noted. pF: μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}$ W or less unless otherwise specified.
- Δ : internal component.
- B+** : B+ Line
- B-** : B - Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
no mark : FM
- Voltages are taken with a VOM (Input impedance 10M Ω).
Voltage variations may be noted due to normal production tolerances.

– MAIN SECTION –

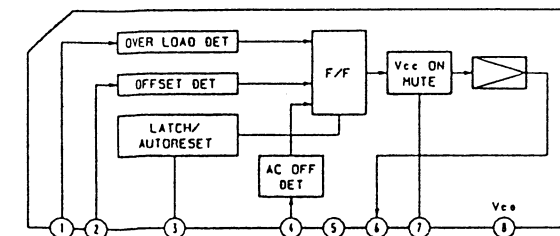
IC402 LB1641

IC802 MC14052BCP

**IC806 M65843FP**

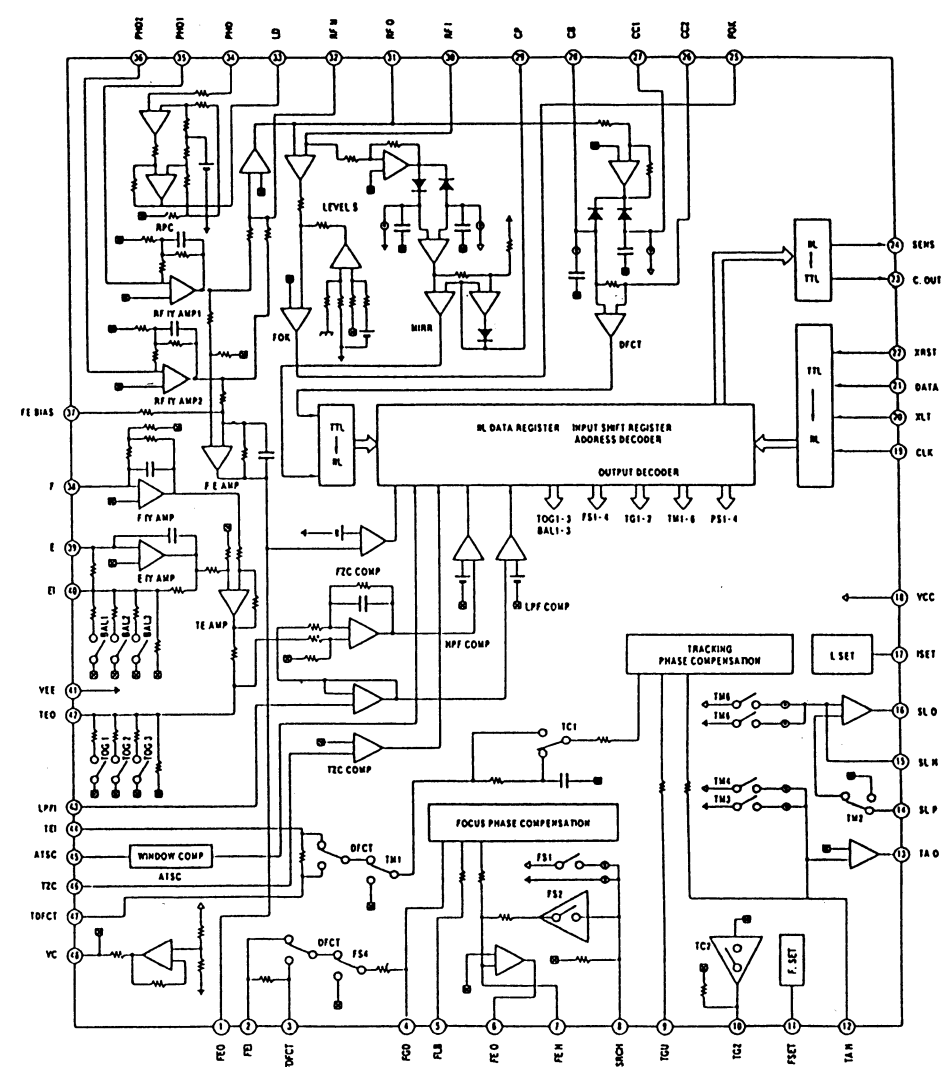
– POWER SECTION –

IC1202 μPC1237HA

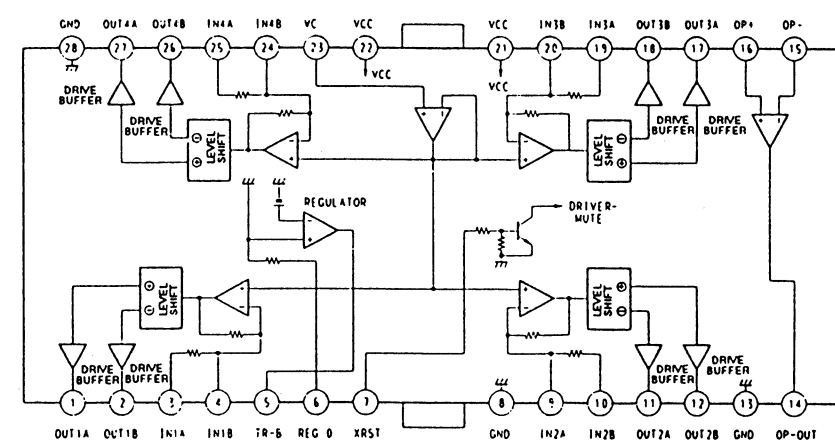


– BD SECTION –

IC101 CXA1782BQ

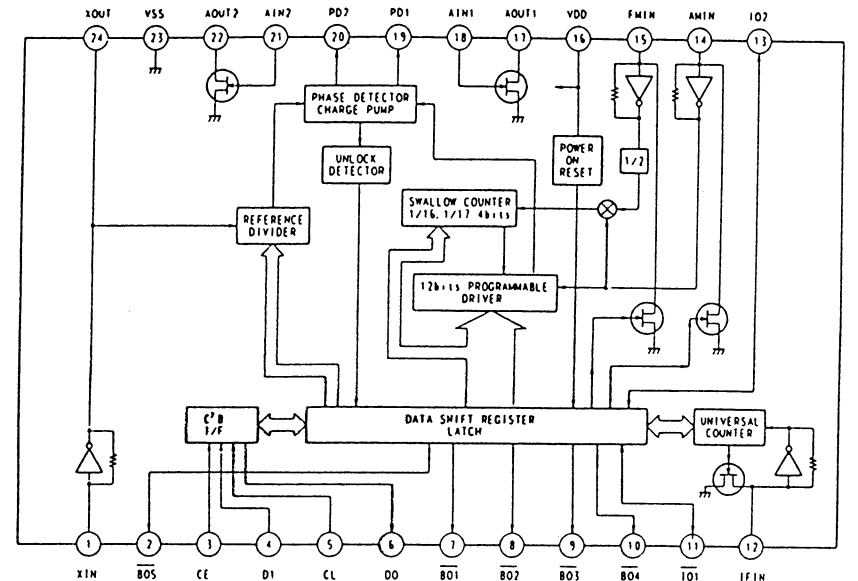


IC102 BA6397FP-T1

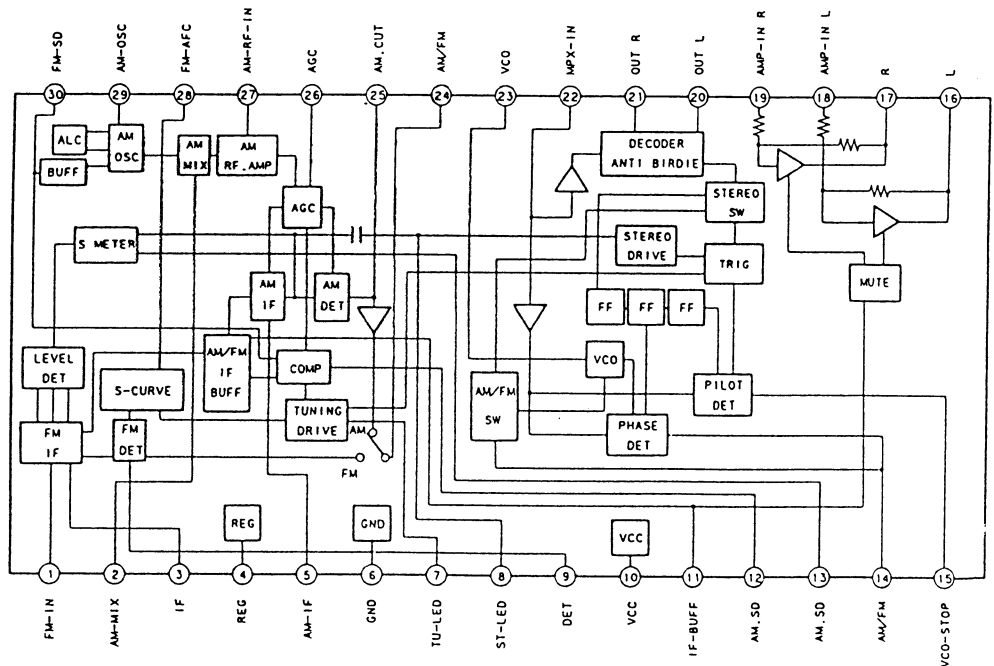


- TCB SECTION -

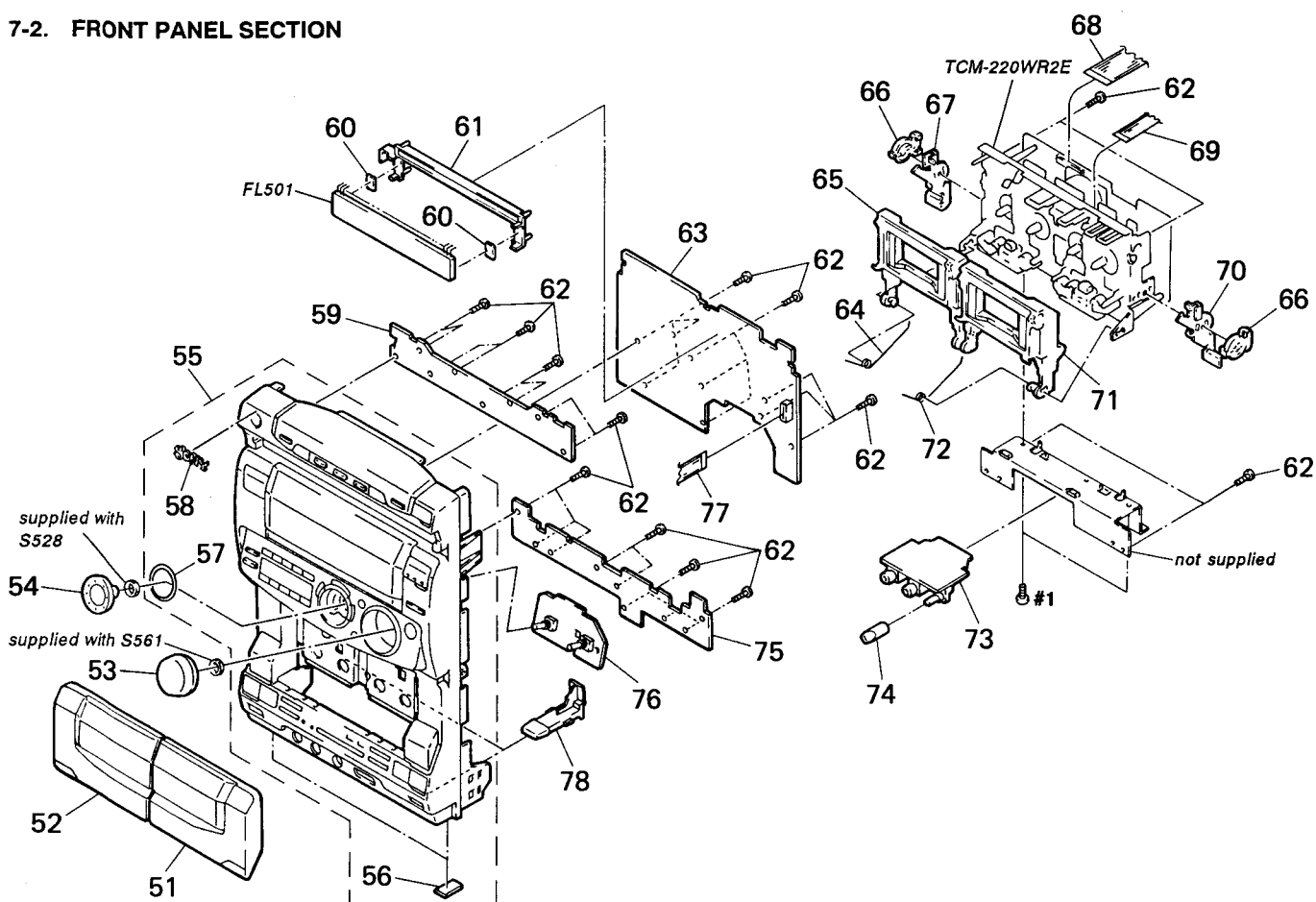
IC1, 21 LC72130



IC2, 41 LA1835

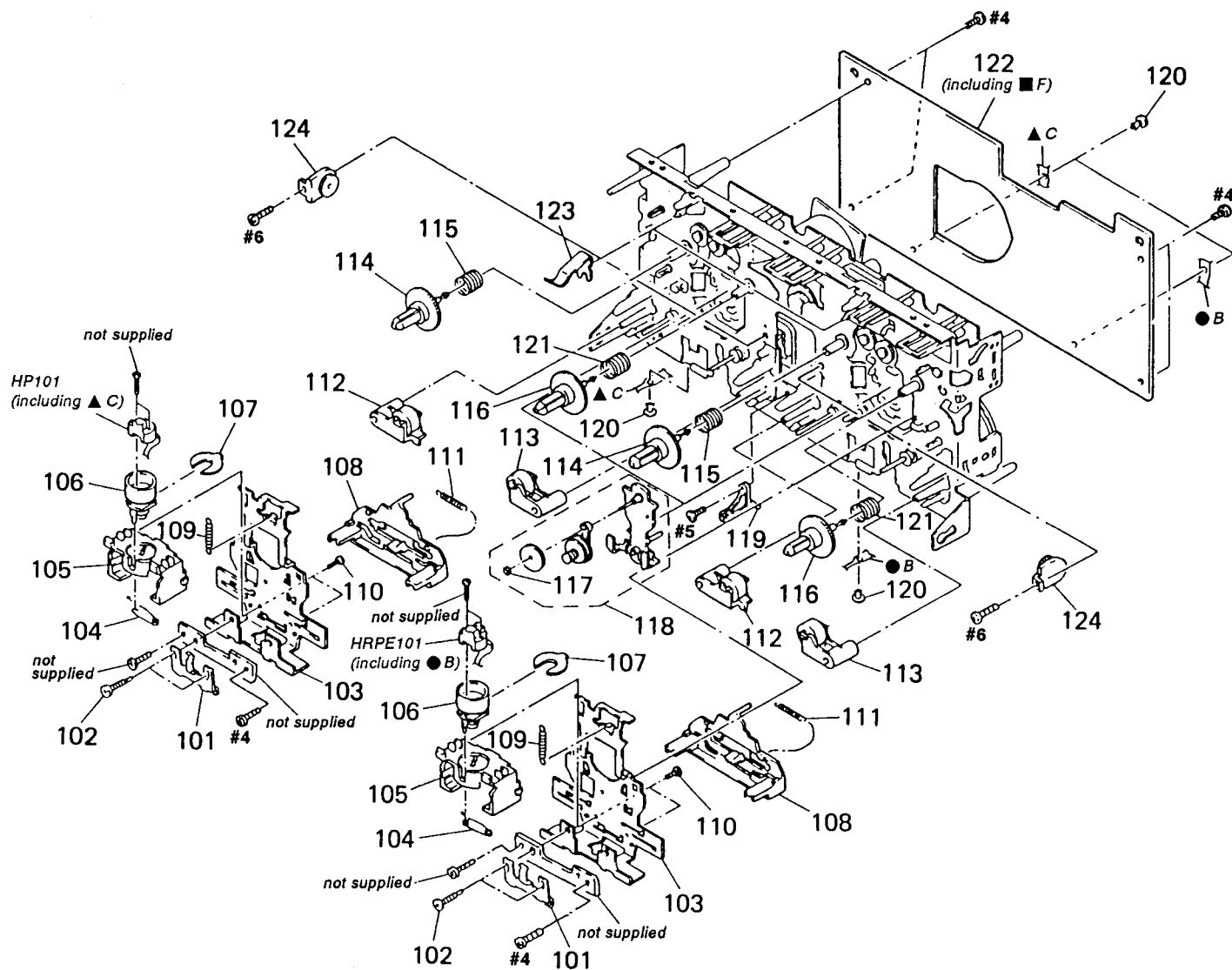


7-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-4946-662-1	LID (B) ASSY, CASSETTE (made in Malaysia/ made in Thailand)		62	4-951-620-01	SCREW (2.6X8), +BVTP	
51	X-4946-788-1	LID (B) ASSY, CASSETTE (made in Indonesia)		* 63	A-4389-024-A	PANEL BOARD, COMPLETE (US,CND)	
52	X-4946-661-1	LID (A) ASSY, CASSETTE (made in Malaysia/ made in Thailand)		* 63	A-4389-025-A	PANEL BOARD, COMPLETE (AEP,G,IT,UK)	
52	X-4946-787-1	LID (A) ASSY, CASSETTE (made in Indonesia)		* 63	A-4389-026-A	PANEL BOARD, COMPLETE (AR,AUS,EE,E2,MX,TH)	
53	4-978-733-01	KNOB, VOL (made in Malaysia/made in Thailand)		* 63	A-4389-027-A	PANEL BOARD, COMPLETE (EA,E3,HK,JE,MY,SP, CIS,TW)	
53	4-978-733-11	KNOB, VOL (made in Indonesia)		64	4-959-231-11	SPRING (L), TORSION	
54	4-978-732-01	KNOB, JOG (made in Malaysia/made in Thailand)		65	X-4946-663-1	HOLDER (L) ASSY, CASSETTE (made in Malaysia / Thailand)	
54	4-978-732-11	KNOB, JOG (made in Indonesia)		65	X-4946-789-1	HOLDER (L) ASSY, CASSETTE (made in Indonesia)	
55	4-978-713-21	PANEL, FRONT (AEP,G,IT,UK,EE:made in Indonesia)		* 66	3-354-957-01	JOINT (LOCK LEVER)	
55	4-978-713-31	PANEL, FRONT (EXCEPT AEP,G,IT,UK, EE:made in Indonesia)		* 67	3-354-953-01	LEVER (LOCK LEVER L)	
55	X-4946-659-1	PANEL ASSY, FRONT (AEP,G,IT,UK,EE:made in Malaysia)		68	1-773-157-11	WIRE (FLAT TYPE) (21 CORE)	
55	X-4946-660-1	PANEL ASSY, FRONT (EXCEPT AEP,G,IT,UK,EE/ made in Malaysia)		69	1-765-325-11	WIRE (FLAT TYPE) (11 CORE) (EXCEPT TH,EA4)	
55	X-4947-003-1	PANEL ASSY, FRONT (AEP,G,IT,UK,EE:made in Indonesia)		69	1-769-945-11	WIRE (FLAT TYPE) (11 CORE) (TH,EA4)	
55	X-4947-016-1	PANEL ASSY, FRONT (EXCEPT AEP,G,IT,UK,EE/ made in Indonesia)		* 70	3-354-954-01	LEVER (LOCK LEVER R)	
56	4-930-336-61	FOOT (FELT)		71	X-4946-664-1	HOLDER (R) ASSY, CASSETTE (made in Malaysia / Thailand)	
57	4-978-745-01	PLATE, ORNAMENTAL, JOG (made in Malaysia/ made in Thailand)		71	X-4946-790-1	HOLDER (R) ASSY, CASSETTE (made in Indonesia)	
57	4-978-745-31	PLATE, ORNAMENTAL, JOG (made in Indonesia)		72	4-959-232-11	SPRING (R), TORSION	
58	4-962-708-11	EMBLEM (4-A), SONY (made in Malaysia/ Thailand)		* 73	A-4389-031-A	HP/MIC BOARD, COMPLETE (EXCEPT AEP,G,IT,UK)	
58	4-962-708-21	EMBLEM (4-A), SONY (made in Indonesia)		* 73	A-4389-032-A	HP/MIC BOARD, COMPLETE (AEP,G,IT,UK)	
* 59	A-4389-029-A	CD-SW BOARD, COMPLETE		74	4-973-644-01	KNOB (MIC)	
* 60	4-932-810-11	CUSHION (FL)		* 75	A-4389-030-A	TC-SW BOARD, COMPLETE	
* 61	4-971-014-11	HOLDER, FL TUBE		* 76	A-4389-028-A	JOG BOARD, COMPLETE	
				77	1-769-977-11	WIRE (FLAT TYPE) (13 CORE)	
				78	4-978-731-01	BUTTON, EJECT (made in Malaysia/ Thailand)	
				78	4-978-731-11	BUTTON, EJECT (made in Indonesia)	
				FL501	1-517-483-11	INDICATOR TUBE, FLUORESCENT	

7-3. MECHANISM DECK SECTION-1
(TCM-220WR2E)

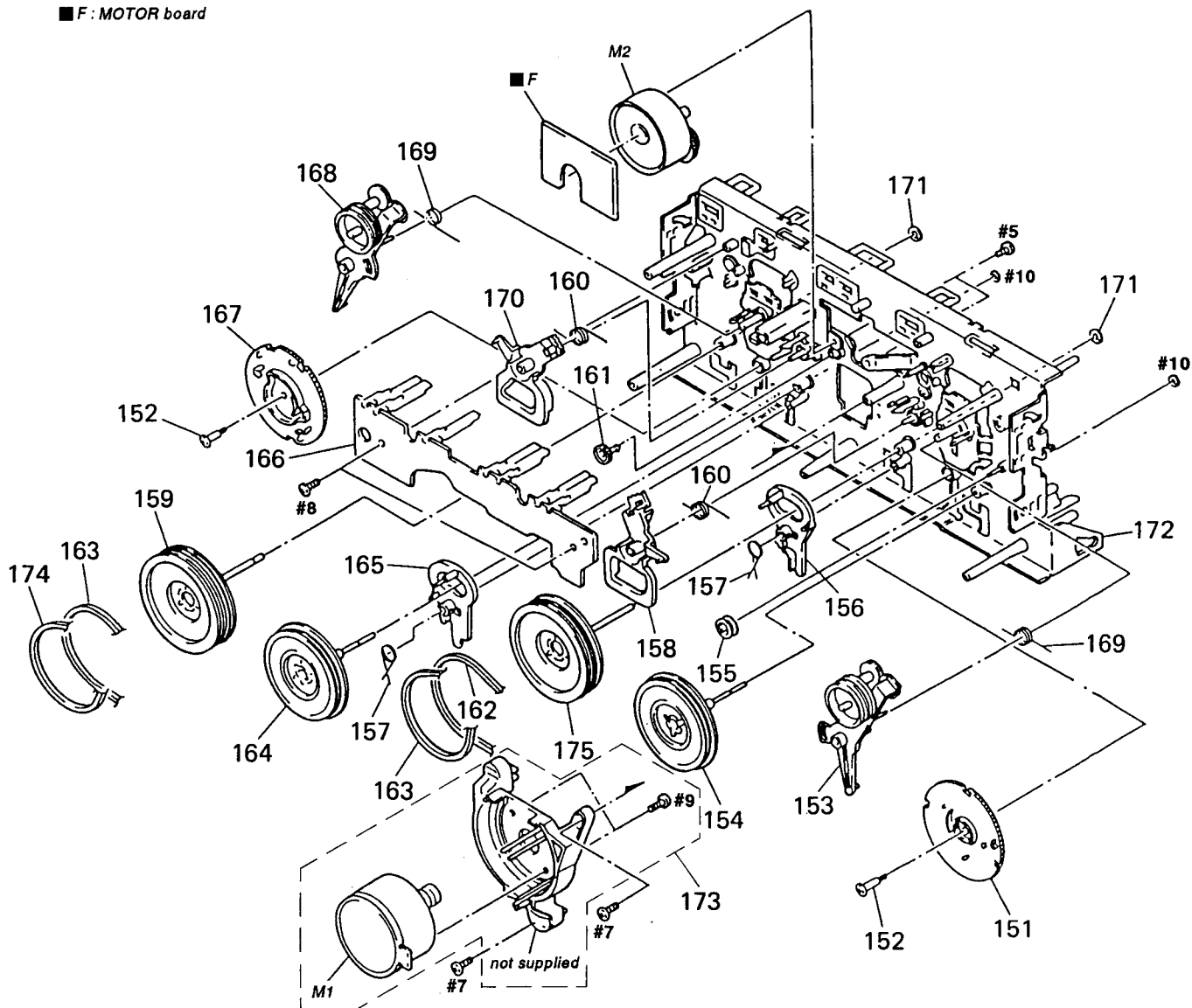


Ref. No.	Part No.	Description	Remark
101	3-908-560-01	SPRING, AZIMUTH ADJUSTMENT	
102	3-919-684-01	SCREW, AZIMUTH ADJUSTMENT	
* 103	X-3367-584-2	SLIDER (HEAD) ASSY	
104	3-908-556-01	SPRING, HEAD TOGGLE	
105	3-908-558-02	FITTING BLOCK, HEAD	
106	3-908-557-02	ROTARY BLOCK, HEAD	
* 107	3-908-559-01	STOPPER, AZIMUTH	
108	3-908-555-01	SLIDER (REV SLIDER)	
109	3-917-143-11	SPRING, TENSION	
110	3-388-848-01	SCREW (P2X6) (B TIGHT)	
111	3-911-113-01	SPRING, TENSION	
112	X-3370-643-1	PINCH LEVER (REV) ASSY	
113	X-3367-588-1	PINCH LEVER (FWD) ASSY	

Ref. No.	Part No.	Description	Remark
114	3-908-613-01	GEAR (S), REEL	
115	3-917-141-01	SPRING, COMPRESSION	
116	X-3371-305-1	REEL (T) ASSY	
117	3-669-465-01	WASHER (1.5), STOPPER	
118	X-3370-173-1	TU ASSY	
* 119	3-908-611-01	FULCRUM, HOLDER	
120	3-911-116-21	RIVET, PUSH	
121	3-917-142-01	SPRING, COMPRESSION	
* 122	A-2007-435-A	AUDIO BOARD, COMPLETE	
123	3-930-972-01	DETENT, HALF	
124	3-354-963-01	DAMPER	
HP101	1-500-093-11	HEAD, MAGNETIC (PLAYBACK)	
HRPE101	1-500-094-11	HEAD, MAGNETIC (REC/PB/ERASE)	

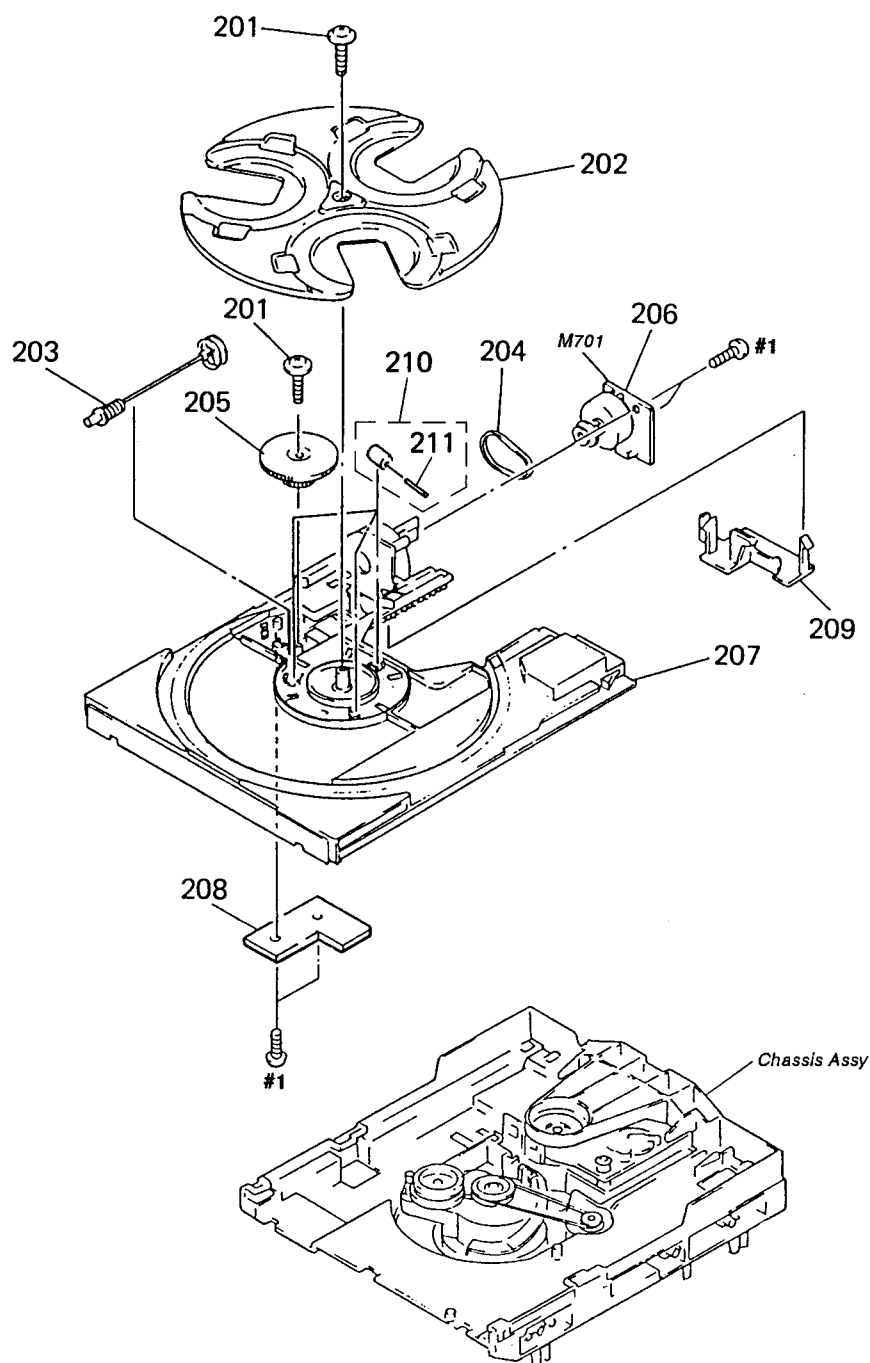
7-4. MECHANISM DECK SECTION-2
(TCM-220WR2E)

■ F : MOTOR board



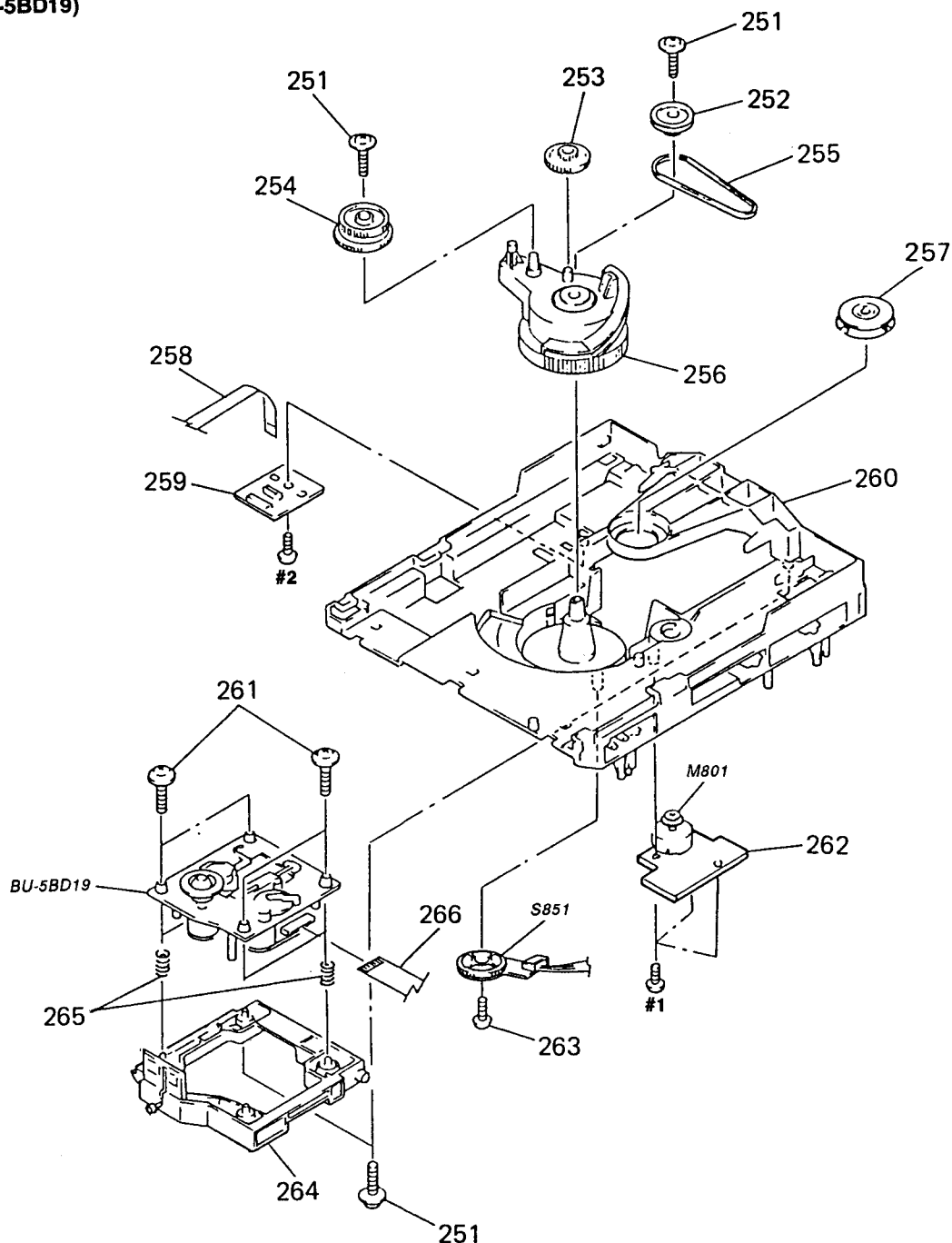
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	3-908-597-01	CAM (A)		165	3-908-600-01	LEVER (REV-B)	
152	3-908-608-11	SCREW, STEP		* 166	1-650-669-11	LEAF SWITCH BOARD	
153	X-3367-590-2	ARM (A) ASSY, FR		167	3-908-598-01	CAM (B)	
154	X-3370-169-1	FLYWHEEL (AR) ASSY		168	X-3369-849-2	ARM (B) ASSY, FR	
155	3-928-047-01	PULLEY, TENSION		169	3-914-111-01	SPRING (FR), TORSION	
156	3-908-599-01	LEVER (REV-A)		170	3-908-604-01	LEVER (TRIGGER B)	
157	3-908-601-01	SPRING (REV LEVER), TORSION		171	3-911-115-01	WASHER, STOPPER	
158	3-908-603-01	LEVER (TRIGGER A)		172	X-3371-441-1	CHASSIS ASSY	
159	X-3367-593-1	FLYWHEEL (BF) ASSY		173	A-2004-409-A	MOTOR ASSY, CAPSTAN	
160	3-908-605-01	SPRING (TRIGGER), TORSION		174	3-917-176-11	BELT (B)	
161	3-908-609-01	GEAR, TRIGGER		175	X-3370-172-1	FLYWHEEL (AF) ASSY	
162	3-913-845-11	BELT (A)		M1	X-3371-223-1	MOTOR ASSY (CAPSTAN)	
163	3-913-846-11	BELT (FR)		M2	A-2004-410-A	MOTOR ASSY, DC (TRIGGER)	
164	X-3370-171-1	FLYWHEEL (BR) ASSY					

**7-5. DISC TABLE ASSY SECTION
(CDM38-5BD19)**



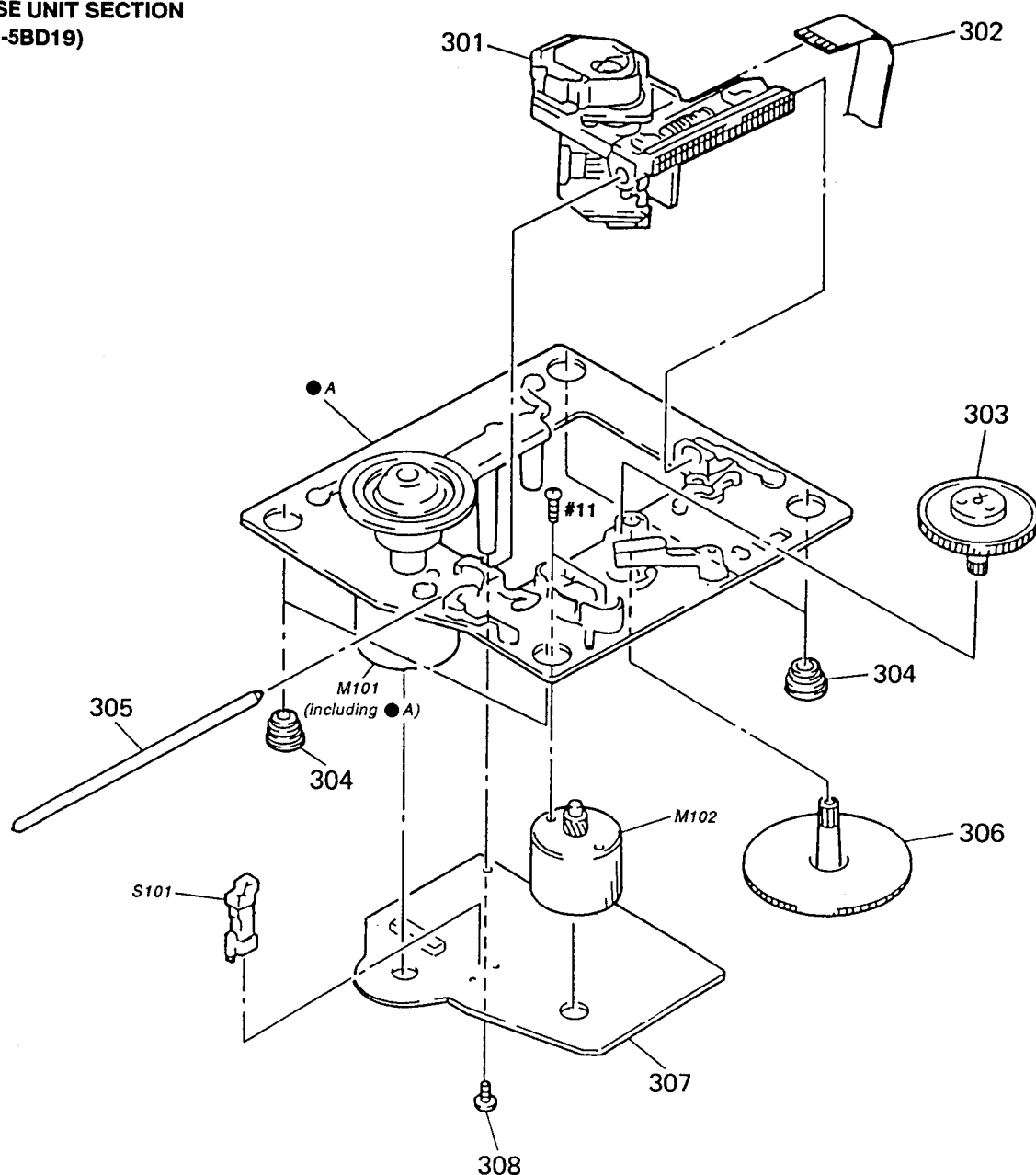
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	4-917-583-21	BRACKET, YOKE		207	4-977-944-01	TRAY (SLIDE)	
202	4-977-945-01	TRAY (TURN)		* 208	1-658-576-12	SENSOR BOARD	
203	X-4946-665-2	SHAFT ASSY, WORM (H881/H881D)		209	4-977-941-01	BEARING (WORM)	
204	4-977-943-01	BELT (TURN) (1.2)		210	X-4924-457-1	ROLLER ASSY	
205	4-977-956-01	WHEEL, WORM		211	4-934-376-01	SHAFT (ROLLER)	
* 206	1-658-577-11	MOTOR (TURN) BOARD		M701	A-4660-586-A	MOTOR ASSY(TURN)	

7-6. CDM CHASSIS SECTION
(CDM38-5BD19)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	4-917-583-21	BRACKET, YOKE		261	4-933-134-01	SCREW (+PTPWH M2.6X6)	
252	4-977-954-01	PULLEY (SL)		262	1-658-578-12	MOTOR (SLIDE) BOARD	
253	4-977-953-01	GEAR (SL-A)		263	4-951-620-41	SCREW (2.6), +BVTP	
254	4-977-955-01	GEAR (SL-B)		* 264	X-4946-666-1	HOLDER (BU) ASSY	
255	4-977-942-01	BELT (SL) (1.4)		265	4-958-593-01	SPRING (BU), COMPRESSION	
256	X-4946-667-1	CAM ASSY, BU		266	1-776-442-11	WIRE (FLAT TYPE) (19 CORE) (EXCEPT TH)	
257	1-452-538-11	MAGNET		M801	A-4660-586-A	MOTOR ASSY(SLIDE)	
258	1-776-042-11	WIRE (FLAT TYPE) (8 CORE)		S851	1-473-335-11	ENCODER, ROTARY	
* 259	1-658-575-11	CONNECTOR BOARD					
* 260	X-4946-668-1	CHASSIS (CDM) ASSY					

7-7. BASE UNIT SECTION
(BU-5BD19)



The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Δ 301	8-848-367-11	DEVICE, OPTICAL KSS-213BA/F-NP		* 307	A-4673-402-A	BD BOARD, COMPLETE	
302	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)		308	4-951-620-01	SCREW (2.6X8), +BVTP	
303	4-917-567-01	GEAR (M)		M101	X-4917-523-4	BASE OUTSERT ASSY(SPINDLE)	
304	4-951-940-01	INSULATOR (BU)		M102	X-4917-504-1	MOTOR ASSY(SLED)	
305	4-917-565-01	SHAFT, SLED		S101	1-572-085-11	SWITCH, LEAF (LIMIT SW)	
306	4-917-564-01	GEAR (P), FLATNESS					

SECTION 8 ELECTRICAL PARTS LIST

AUDIO
MOTOR
NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms
METAL : Metal-film resistor
METAL OXIDE : Metal oxide-film resistor
F : nonflammable
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

SEMICONDUCTORS

In each case, u : μ , for example :
uA..... : μ A....., uPA..... : μ PA.....
uPB..... : μ PB....., uPC..... : μ PC.....
uPD..... : μ PD.....

CAPACITORS

uF : μ F

COILS

uH : μ H

Abbreviation

CND : Canadian	SP : Singapore
AUS : Australian	HK : Hong Kong
AR : Argentine	JE : Tourist
MX : Mexican	IA : Indonesia
TH : Thailand	G : German
EA : Saudi Arabia	IT : Italian
MY : Malaysia	EE : East European
TW : Taiwan	
E2 : Tuner sections SW band do no exist.	
E3 : Tuner sections SW band exist.	

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
*	A-2007-435-A	AUDIO BOARD, COMPLETE ***** MOTOR BOARD ***** < CAPACITOR >						< CONNECTOR >			
						* CN601	1-568-864-11	SOCKET, CONNECTOR 21P			
						* CN602	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P			
						* CN651	1-564-521-11	PLUG, CONNECTOR 6P			
								< IC >			
C301	1-162-289-31	CERAMIC	390PF	10%	50V	IC601	8-759-111-44	IC uPC4570C-1			
C302	1-126-968-11	ELECT	100uF	20%	6.3V	IC602	8-759-143-54	IC uPC1330HA			
C303	1-162-282-31	CERAMIC	100PF	10%	50V	IC611	8-759-111-44	IC uPC4570C-1			
C304	1-130-483-00	MYLAR	0.01uF	5%	50V						
C305	1-107-715-11	ELECT	22uF	20%	16V						
								< COIL >			
C311	1-162-289-31	CERAMIC	390PF	10%	50V	L331	1-410-780-11	INDUCTOR	27mH		
C313	1-162-282-31	CERAMIC	100PF	10%	50V	L431	1-410-780-11	INDUCTOR	27mH		
C314	1-130-487-00	MYLAR	0.022uF	5%	50V						
C315	1-126-233-11	ELECT	22uF	20%	50V						
C331	1-137-427-11	FILM	120PF	5%	50V						
								< TRANSISTOR >			
C332	1-162-288-31	CERAMIC	330PF	10%	50V	Q621	8-729-142-46	TRANSISTOR	2SC2001TP-LK		
C333	1-162-209-31	CERAMIC	27PF	5%	50V	Q622	8-729-142-46	TRANSISTOR	2SC2001TP-LK		
C401	1-162-289-31	CERAMIC	390PF	10%	50V	Q623	8-729-801-93	TRANSISTOR	2SD1387-34-TP		
C402	1-126-968-11	ELECT	100uF	20%	6.3V	Q651	8-729-900-65	TRANSISTOR	2SA1345-TP		
C403	1-162-282-31	CERAMIC	100PF	10%	50V						
								< RESISTOR >			
C404	1-130-483-00	MYLAR	0.01uF	5%	50V	R301	1-247-881-00	CARBON	120K	5%	1/4W
C411	1-162-289-31	CERAMIC	390PF	10%	50V	R302	1-249-409-11	CARBON	220	5%	1/4W
C413	1-162-282-31	CERAMIC	100PF	10%	50V	R303	1-249-433-11	CARBON	22K	5%	1/4W
C414	1-130-487-00	MYLAR	0.022uF	5%	50V	R304	1-247-889-00	CARBON	270K	5%	1/4W
C415	1-126-233-11	ELECT	22uF	20%	50V	R305	1-247-858-11	CARBON	13K	5%	1/4W
C431	1-137-427-11	FILM	120PF	5%	50V	R311	1-247-881-00	CARBON	120K	5%	1/4W
C432	1-162-288-31	CERAMIC	330PF	10%	50V	R312	1-247-807-31	CARBON	100	5%	1/4W
C433	1-162-209-31	CERAMIC	27PF	5%	50V	R314	1-247-882-11	CARBON	130K	5%	1/4W
C601	1-126-157-11	ELECT	10uF	20%	16V	R315	1-247-850-11	CARBON	6.2K	5%	1/4W
C602	1-126-157-11	ELECT	10uF	20%	16V	R331	1-249-430-11	CARBON	12K	5%	1/4W
C611	1-124-907-11	ELECT	10uF	20%	50V	R401	1-247-881-00	CARBON	120K	5%	1/4W
C612	1-124-907-11	ELECT	10uF	20%	50V	R402	1-249-409-11	CARBON	220	5%	1/4W
C621	1-137-150-11	FILM	0.01uF	5%	100V	R403	1-249-433-11	CARBON	22K	5%	1/4W
C622	1-126-961-11	ELECT	2.2uF	20%	50V	R404	1-247-889-00	CARBON	270K	5%	1/4W
C623	1-136-155-00	FILM	0.015uF	5%	50V	R405	1-247-858-11	CARBON	13K	5%	1/4W
C624	1-130-481-00	MYLAR	0.0068uF	5%	50V	R411	1-247-881-00	CARBON	120K	5%	1/4W
C625	1-130-481-00	MYLAR	0.0068uF	5%	50V	R412	1-247-807-31	CARBON	100	5%	1/4W
C627	1-124-903-11	ELECT	1uF	20%	50V	R414	1-247-882-11	CARBON	130K	5%	1/4W
C628	1-136-153-00	FILM	0.01uF	5%	50V	R415	1-247-850-11	CARBON	6.2K	5%	1/4W
C642	1-104-664-11	ELECT	47uF	20%	16V	R431	1-249-430-11	CARBON	12K	5%	1/4W
C651	1-161-494-00	CERAMIC	0.022uF		25V						

AUDIO

MOTOR

BD

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R601	1-249-409-11	CARBON	220	5%	1/4W	C121	1-163-038-91	CERAMIC CHIP	0.1uF		25V
R602	1-249-409-11	CARBON	220	5%	1/4W						
R608	1-249-409-11	CARBON	220	5%	1/4W	C122	1-164-232-11	CERAMIC CHIP	0.01uF		50V
R609	1-249-433-11	CARBON	22K	5%	1/4W	C123	1-163-038-91	CERAMIC CHIP	0.1uF		25V
R611	1-249-409-11	CARBON	220	5%	1/4W	C124	1-126-607-11	ELECT CHIP	47uF	20%	4V
						C125	1-164-232-11	CERAMIC CHIP	0.01uF		50V
R612	1-249-409-11	CARBON	220	5%	1/4W	C126	1-163-038-91	CERAMIC CHIP	0.1uF		25V
△ R621	1-212-851-00	FUSIBLE	5.6	5%	1/4W F						
△ R622	1-212-851-00	FUSIBLE	5.6	5%	1/4W F	C127	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
R623	1-249-432-11	CARBON	18K	5%	1/4W	C128	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
R624	1-249-432-11	CARBON	18K	5%	1/4W	C129	1-163-038-91	CERAMIC CHIP	0.1uF		25V
						C130	1-164-336-11	CERAMIC CHIP	0.33uF		25V
R625	1-249-429-11	CARBON	10K	5%	1/4W	C131	1-163-038-91	CERAMIC CHIP	0.1uF		25V
R651	1-247-856-00	CARBON	11K	5%	1/4W						
R652	1-247-856-00	CARBON	11K	5%	1/4W	C132	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
R653	1-249-441-11	CARBON	100K	5%	1/4W	C133	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V
		< VARIABLE RESISTOR >				C134	1-164-346-11	CERAMIC CHIP	1uF		16V
RV301	1-238-598-11	RES, ADJ, CARBON 2.2K (PB LEVEL L)				C135	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
RV311	1-238-598-11	RES, ADJ, CARBON 2.2K (PB LEVEL L)				C136	1-164-005-11	CERAMIC CHIP	0.47uF		25V
RV341	1-238-551-11	RES, ADJ, CARBON 220K (REC BIAS L)									
RV401	1-238-598-11	RES, ADJ, CARBON 2.2K (PB LEVEL R)				C137	1-164-232-11	CERAMIC CHIP	0.01uF		50V
RV411	1-238-598-11	RES, ADJ, CARBON 2.2K (PB LEVEL R)				C139	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
						C140	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
RV441	1-238-551-11	RES, ADJ, CARBON 220K (REC BIAS R)				C141	1-163-038-91	CERAMIC CHIP	0.1uF		25V
RV651	1-238-599-11	RES, ADJ, CARBON 4.7K (TAPE SPEED (NORMAL))				C142	1-163-038-91	CERAMIC CHIP	0.1uF		25V
RV652	1-238-599-11	RES, ADJ, CARBON 4.7K (TAPE SPEED(HIGH))				C145	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
						C146	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
		< TRANSFORMER >				C147	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
T621	1-423-980-11	TRANSFORMER, BIAS OSCILLATION				C148	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
*****						C149	1-164-346-11	CERAMIC CHIP	1uF		16V
						C153	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
						C154	1-163-235-11	CERAMIC CHIP	22PF	5%	50V

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
R109	1-216-097-91	METAL GLAZE	100K 5% 1/10W
R112	1-216-077-00	METAL CHIP	15K 5% 1/10W
R113	1-216-077-00	METAL CHIP	15K 5% 1/10W
R114	1-216-101-00	METAL CHIP	150K 5% 1/10W
R115	1-216-101-00	METAL CHIP	150K 5% 1/10W
R116	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
R117	1-216-093-00	METAL CHIP	68K 5% 1/10W
R118	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R119	1-216-121-91	METAL GLAZE	1M 5% 1/10W
R120	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R121	1-216-114-00	METAL GLAZE	510K 5% 1/10W
R122	1-216-097-91	METAL GLAZE	100K 5% 1/10W
R123	1-216-099-00	METAL CHIP	120K 5% 1/10W
R124	1-216-091-00	METAL CHIP	56K 5% 1/10W
R125	1-216-069-00	METAL CHIP	6.8K 5% 1/10W
R126	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W
R127	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R128	1-216-105-91	METAL GLAZE	220K 5% 1/10W
R129	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R130	1-216-079-00	METAL CHIP	18K 5% 1/10W
R131	1-216-079-00	METAL CHIP	18K 5% 1/10W
R132	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
R133	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
R134	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R135	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R136	1-216-073-00	METAL CHIP	10K 5% 1/10W
R137	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R138	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R139	1-216-033-00	METAL CHIP	220 5% 1/10W
R140	1-216-081-00	METAL CHIP	22K 5% 1/10W
R141	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
R142	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
R143	1-216-121-91	METAL GLAZE	1M 5% 1/10W
R144	1-216-073-00	METAL CHIP	10K 5% 1/10W
R145	1-216-097-91	METAL GLAZE	100K 5% 1/10W
R146	1-216-097-91	METAL GLAZE	100K 5% 1/10W
R147	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R148	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R149	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R150	1-216-037-00	METAL CHIP	330 5% 1/10W
R151	1-216-037-00	METAL CHIP	330 5% 1/10W
R152	1-216-037-00	METAL CHIP	330 5% 1/10W
R153	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R154	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R156	1-216-081-00	METAL CHIP	22K 5% 1/10W
R157	1-216-069-00	METAL CHIP	6.8K 5% 1/10W
R158	1-216-001-00	METAL CHIP	10 5% 1/10W
< VARIABLE RESISTOR >			
RV101	1-241-396-11	RES, ADJ, METAL GLAZE 22K(FOCUS BIAS)	
RV102	1-241-396-11	RES, ADJ, METAL GLAZE 22K(FOCUS GAIN)	
RV103	1-241-396-11	RES, ADJ, METAL GLAZE 22K(TRACKING GAIN)	

Ref. No.	Part No.	Description	Remark
< SWITCH >			
S101	1-572-085-11	SWITCH, LEAF (LIMIT SW)	
< VIBRATOR >			
X101	1-579-280-11	VIBRATOR, CRYSTAL (16.9344MHz)	

*	A-4389-029-A	CD-SW BOARD, COMPLETE	*****
< CONNECTOR >			
* CN505	1-568-947-11	PIN, CONNECTOR 9P (EXCEPT TH)	
< DIODE >			
D516	8-719-056-13	LED SML79423C-TP15 (DISC 1)	
D517	8-719-056-13	LED SML79423C-TP15 (DISC 1)	
D518	8-719-056-13	LED SML79423C-TP15 (DISC 2)	
D519	8-719-056-13	LED SML79423C-TP15 (DISC 2)	
D520	8-719-056-13	LED SML79423C-TP15 (DISC 3)	
D521	8-719-056-13	LED SML79423C-TP15 (DISC 3)	
D522	8-719-056-13	LED SML79423C-TP15 (▷III)	
< TRANSISTOR >			
Q510	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q511	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q512	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q513	8-729-119-76	TRANSISTOR 2SA1175-HFE	
< RESISTOR >			
R518	1-249-401-11	CARBON 47 5% 1/4W	
R519	1-249-403-11	CARBON 68 5% 1/4W	
R520	1-247-807-31	CARBON 100 5% 1/4W	
R521	1-249-407-11	CARBON 150 5% 1/4W	
R522	1-249-407-11	CARBON 150 5% 1/4W	
R523	1-249-409-11	CARBON 220 5% 1/4W	
R524	1-249-411-11	CARBON 330 5% 1/4W	
R525	1-249-413-11	CARBON 470 5% 1/4W	
R596	1-249-403-11	CARBON 68 5% 1/4W	
R597	1-249-403-11	CARBON 68 5% 1/4W	
R598	1-249-403-11	CARBON 68 5% 1/4W	
R599	1-249-403-11	CARBON 68 5% 1/4W	
R600	1-249-403-11	CARBON 68 5% 1/4W	
R601	1-249-403-11	CARBON 68 5% 1/4W	
R602	1-249-403-11	CARBON 68 5% 1/4W	
R603	1-249-403-11	CARBON 68 5% 1/4W	
R604	1-249-403-11	CARBON 68 5% 1/4W	
R605	1-249-403-11	CARBON 68 5% 1/4W	
R606	1-249-403-11	CARBON 68 5% 1/4W	
R607	1-249-403-11	CARBON 68 5% 1/4W	
R608	1-249-403-11	CARBON 68 5% 1/4W	
R609	1-249-403-11	CARBON 68 5% 1/4W	

CD-SW

CONNECTOR

HP/MIC

JOG

Ref. No.	Part No.	Description	Remark
< SWITCH >			
S500	1-554-303-21	SWITCH, TACTILE (POWER)	
S501	1-554-303-21	SWITCH, TACTILE (LOOP)	
S502	1-554-303-21	SWITCH, TACTILE (DISC SKIP EX-CHANGE)	
S503	1-554-303-21	SWITCH, TACTILE (DISC 1)	
S504	1-554-303-21	SWITCH, TACTILE (DISC 2)	
S505	1-554-303-21	SWITCH, TACTILE (DISC 3)	
S506	1-554-303-21	SWITCH, TACTILE (≡ OPEN/CLOSE)	
S507	1-554-303-21	SWITCH, TACTILE (■)	
S508	1-554-303-21	SWITCH, TACTILE (▷00)	

*	1-658-575-11	CONNECTOR BOARD	*****
< CONNECTOR >			
* CN701	1-568-946-11	PIN, CONNECTOR 8P	
CN702	1-750-413-11	CONNECTOR, FFC/FPC 8P	
< TRANSISTOR >			
Q701	8-729-900-80	TRANSISTOR BA1A4M-TP	
< RESISTOR >			
R703	1-249-435-11	CARBON 33K	5% 1/4W
R704	1-249-429-11	CARBON 10K	5% 1/4W
R705	1-249-417-11	CARBON 1K	5% 1/4W

*	A-4389-031-A	HP/MIC BOARD, COMPLETE (EXCEPT AEP,G,IT, UK)	
*	A-4389-032-A	HP/MIC BOARD, COMPLETE (AEP,G,IT,UK)	*****
< CAPACITOR >			
C670	1-162-294-31	CERAMIC 0.001uF	10% 50V
C671	1-162-294-31	CERAMIC 0.001uF	10% 50V
C674	1-162-306-11	CERAMIC 0.01uF	30% 16V
C675	1-124-257-00	ELECT 2.2uF	20% 50V
C676	1-162-294-31	CERAMIC 0.001uF	10% 50V
C677	1-162-215-31	CERAMIC 47PF	5% 50V
C678	1-162-290-31	CERAMIC 470PF	10% 50V
C679	1-124-465-00	ELECT 0.47uF	20% 50V
C680	1-162-215-31	CERAMIC 47PF	5% 50V
C681	1-162-282-31	CERAMIC 100PF	10% 50V
C684	1-124-261-00	ELECT 10uF	20% 50V
C686	1-124-261-00	ELECT 10uF	20% 50V
C687	1-124-464-11	ELECT 0.22uF	20% 50V
< IC >			
IC670	8-759-634-51	IC M5218AP	

Ref. No.	Part No.	Description	Remark
< JACK >			
J670	1-770-226-11	JACK (LARGE TYPE) (PHONES)	
J671	1-770-226-11	JACK (LARGE TYPE) (MIX MIC)	
< RESISTOR >			
R670	1-249-429-11	CARBON 10K	5% 1/4W
R671	1-249-417-11	CARBON 1K	5% 1/4W
R672	1-249-441-11	CARBON 100K	5% 1/4W
R673	1-249-417-11	CARBON 1K	5% 1/4W
R674	1-249-433-11	CARBON 22K	5% 1/4W
R675	1-249-429-11	CARBON 10K	5% 1/4W
R676	1-247-881-00	CARBON 120K	5% 1/4W
R677	1-247-807-31	CARBON 100	5% 1/4W
< VARIABLE RESISTOR >			
RV670	1-223-983-11	RES, VAR, CARBON 50K (MIC LEVEL)	*****

*	A-4389-028-A	JOG BOARD, COMPLETE	*****
< DIODE >			
D508	8-719-058-17	LED LNJ401NPYJA (SONIC FORMATION)	
D509	8-719-057-30	LED HLMF-K205-211M (ENTER/NEXT)	
D510	8-719-057-97	LED SEL5923A-TP15 (▶▶)	
D511	8-719-057-97	LED SEL5923A-TP15 (◀◀)	
D512	8-719-057-97	LED SEL5923A-TP15 (+)	
D513	8-719-057-97	LED SEL5923A-TP15 (-)	
D514	8-719-057-97	LED SEL5923A-TP15 (▶)	
D515	8-719-057-97	LED SEL5923A-TP15 (◀)	
< TRANSISTOR >			
Q507	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q508	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q509	8-729-119-76	TRANSISTOR 2SA1175-HFE	
< RESISTOR >			
R541	1-249-413-11	CARBON 470	5% 1/4W
R542	1-249-415-11	CARBON 680	5% 1/4W
R543	1-249-417-11	CARBON 1K	5% 1/4W
R544	1-249-419-11	CARBON 1.5K	5% 1/4W
R545	1-249-421-11	CARBON 2.2K	5% 1/4W
R546	1-249-423-11	CARBON 3.3K	5% 1/4W
R588	1-247-807-31	CARBON 100	5% 1/4W
R589	1-249-407-11	CARBON 150	5% 1/4W
R590	1-247-807-31	CARBON 100	5% 1/4W
R591	1-247-807-31	CARBON 100	5% 1/4W
R592	1-247-807-31	CARBON 100	5% 1/4W
R593	1-247-807-31	CARBON 100	5% 1/4W
R594	1-247-807-31	CARBON 100	5% 1/4W
R595	1-247-807-31	CARBON 100	5% 1/4W

JOG

LEAF SWITCH

MAIN

Ref. No.	Part No.	Description	Remark
< SWITCH >			
S524	1-554-303-21	SWITCH, TACTILE (DBFB)	
S526	1-554-303-21	SWITCH, TACTILE (SONIC FORMATION)	
S527	1-554-303-21	SWITCH, TACTILE (FREQUENCY +)	
S528	1-554-303-21	SWITCH, TACTILE (ENTER/NEXT)	
S529	1-554-303-21	SWITCH, TACTILE (FREQUENCY -)	
S561	1-467-869-11	ENCODER, ROTARY (VOLUME)	
S562	1-467-968-11	ENCODER, ROTARY (MULTI JOG STATION)	

*	1-650-669-11	LEAF SWITCH BOARD	*****
< CONNECTOR >			
* CN1001	1-568-854-11	SOCKET, CONNECTOR 11P	
< TRANSISTOR >			
Q1001	8-749-010-90	PHOTO REFLECTOR NJL5165KA-H	
Q1002	8-749-010-90	PHOTO REFLECTOR NJL5165KA-H	
< RESISTOR >			
R1001	1-249-412-11	CARBON 390 5% 1/4W	
R1002	1-249-412-11	CARBON 390 5% 1/4W	
R1003	1-249-414-11	CARBON 560 5% 1/4W	
R1004	1-247-834-11	CARBON 1.3K 5% 1/4W	
R1005	1-247-818-11	CARBON 300 5% 1/4W	
< SWITCH >			
S1001	1-692-832-11	SWITCH, PUSH (1 KEY) (A PLAY)	
S1002	1-692-832-11	SWITCH, PUSH (1 KEY) (B PLAY)	
S1003	1-572-248-11	SWITCH, LEAF (A HALF)	
S1004	1-571-281-21	SWITCH, LEAF (A CrO ₂)	
S1005	1-571-281-21	SWITCH, LEAF (REC A)	
S1006	1-572-248-11	SWITCH, LEAF (B HALF)	
S1008	1-571-281-21	SWITCH, LEAF (B CrO ₂)	
S1009	1-571-281-21	SWITCH, LEAF (REC B)	

*	A-4389-045-A	MAIN BOARD, COMPLETE (H881:US,CND)	
*	A-4389-046-A	MAIN BOARD, COMPLETE (AEP,UK)	
*	A-4389-047-A	MAIN BOARD, COMPLETE (G,IT)	
*	A-4389-048-A	MAIN BOARD, COMPLETE (EE)	
*	A-4389-049-A	MAIN BOARD, COMPLETE (CIS)	
*	A-4389-050-A	MAIN BOARD, COMPLETE (AR,E2,MX)	
*	A-4389-051-A	MAIN BOARD, COMPLETE (EA,E3,HK,MY,SP,TW)	
*	A-4389-052-A	MAIN BOARD, COMPLETE (AUS,TH)	
*	A-4389-197-A	MAIN BOARD, COMPLETE (H881D:US,CND)	
*	A-4389-358-A	MAIN BOARD, COMPLETE (JE)	*****
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	

Ref. No.	Part No.	Description	Remark
< CAPACITOR >			
C201	1-124-925-11	ELECT 2.2uF 20% 100V	
C202	1-162-600-11	CERAMIC 0.0047uF 30% 16V	
C203	1-126-925-11	ELECT 470uF 20% 10V	
C204	1-126-933-11	ELECT 100uF 20% 10V	
C205	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C211	1-124-925-11	ELECT 2.2uF 20% 100V	
C212	1-162-600-11	CERAMIC 0.0047uF 30% 16V	
C250	1-162-306-11	CERAMIC 0.01uF 30% 16V	(AEP,G,IT,UK,EE)
C251	1-164-035-11	CERAMIC 47PF 5% 50V	(AEP,G,IT,UK,EE)
C252	1-102-527-11	CERAMIC 82PF 5% 50V	(AEP,G,IT,UK,EE)
C253	1-162-291-31	CERAMIC 560PF 10% 50V	(AEP,G,IT,UK,EE)
C254	1-162-306-11	CERAMIC 0.01uF 30% 16V	(AEP,G,IT,UK,EE)
C255	1-162-288-31	CERAMIC 330PF 10% 50V	(AEP,G,IT,UK,EE)
C256	1-124-925-11	ELECT 2.2uF 20% 100V	(AEP,G,IT,UK,EE)
C257	1-126-964-11	ELECT 10uF 20% 50V	(AEP,G,IT,UK,EE)
C258	1-162-291-31	CERAMIC 560PF 10% 50V	(AEP,G,IT,UK,EE)
C259	1-126-964-11	ELECT 10uF 20% 50V	(AEP,G,IT,UK,EE)
C260	1-164-159-11	CERAMIC 0.1uF 50V	(AEP,G,IT,UK,EE)
C261	1-126-967-11	ELECT 47uF 20% 16V	(AEP,G,IT,UK,EE)
C301	1-130-479-00	MYLAR 0.0047uF 5% 50V	
C302	1-162-290-31	CERAMIC 470PF 10% 50V	
C303	1-164-159-11	CERAMIC 0.1uF 50V	
C305	1-124-903-11	ELECT 1uF 20% 50V	
C306	1-124-902-00	ELECT 0.47uF 20% 50V	
C307	1-126-964-11	ELECT 10uF 20% 50V	
C308	1-126-964-11	ELECT 10uF 20% 50V	
C309	1-124-903-11	ELECT 1uF 20% 50V	
C310	1-126-933-11	ELECT 100uF 20% 10V	
C351	1-130-479-00	MYLAR 0.0047uF 5% 50V	
C352	1-162-290-31	CERAMIC 470PF 10% 50V	
C353	1-164-159-11	CERAMIC 0.1uF 50V	
C355	1-124-903-11	ELECT 1uF 20% 50V	
C356	1-124-902-00	ELECT 0.47uF 20% 50V	
C357	1-126-964-11	ELECT 10uF 20% 50V	
C358	1-126-964-11	ELECT 10uF 20% 50V	
C359	1-124-903-11	ELECT 1uF 20% 50V	
C360	1-126-933-11	ELECT 100uF 20% 10V	
C401	1-164-159-11	CERAMIC 0.1uF 50V	
C402	1-164-159-11	CERAMIC 0.1uF 50V	
C403	1-164-159-11	CERAMIC 0.1uF 50V	
C404	1-126-933-11	ELECT 100uF 20% 16V	
C405	1-126-935-11	ELECT 470uF 20% 16V	
C701	1-162-306-11	CERAMIC 0.01uF 30% 16V	

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C702	1-126-916-11	ELECT	1000uF	20%	6.3V	C910	1-126-964-11	ELECT	10uF	20%	50V
C703	1-126-964-11	ELECT	10uF	20%	50V	C911	1-126-964-11	ELECT	10uF	20%	50V
C704	1-136-165-00	FILM	0.1uF	5%	50V	C912	1-136-167-00	FILM	0.15uF	5%	50V
C705	1-136-165-00	FILM	0.1uF	5%	50V	C913	1-136-167-00	FILM	0.15uF	5%	50V
C706	1-126-964-11	ELECT	10uF	20%	50V	C914	1-126-964-11	ELECT	10uF	20%	50V
C707	1-162-203-31	CERAMIC	15PF	5%	50V	C915	1-136-153-00	FILM	0.01uF	5%	50V
C708	1-162-203-31	CERAMIC	15PF	5%	50V	C930	1-136-167-00	FILM	0.15uF	5%	50V
C710	1-162-306-11	CERAMIC	0.01uF	30%	16V	C931	1-162-294-31	CERAMIC	0.001uF	10%	50V
C713	1-162-306-11	CERAMIC	0.01uF	30%	16V	C933	1-124-902-00	ELECT	0.47uF	20%	50V
C714	1-162-306-11	CERAMIC	0.01uF	30%	16V	C935	1-164-159-11	CERAMIC	0.1uF	50%	50V
C810	1-162-306-11	CERAMIC	0.01uF	30%	16V	C936	1-126-964-11	ELECT	10uF	20%	50V
C811	1-162-306-11	CERAMIC	0.01uF	30%	16V	C938	1-162-282-31	CERAMIC	100PF	10%	50V
C821	1-162-286-31	CERAMIC	220PF	10%	50V	C943	1-126-964-11	ELECT	10uF	20%	50V
C822	1-162-286-31	CERAMIC	220PF	10%	50V	C944	1-126-964-11	ELECT	10uF	20%	50V
C825	1-109-889-11	ELECT	1uF	20%	50V	C950	1-126-964-11	ELECT	10uF	20%	50V
C832	1-130-473-00	MYLAR	0.0015uF	5%	50V	C951	1-124-464-11	ELECT	0.22uF	20%	50V
C833	1-124-903-11	ELECT	1uF	20%	50V	C952	1-124-464-11	ELECT	0.22uF	20%	50V
C834	1-130-479-00	MYLAR	0.0047uF	5%	50V	C953	1-136-495-11	FILM	0.068uF	5%	50V
C835	1-124-903-11	ELECT	1uF	20%	50V	C954	1-136-495-11	FILM	0.068uF	5%	50V
C836	1-136-495-11	FILM	0.068uF	5%	50V	C955	1-136-156-00	FILM	0.018uF	5%	50V
C837	1-104-664-11	ELECT	47uF	20%	25V	C956	1-136-156-00	FILM	0.018uF	5%	50V
C838	1-124-902-00	ELECT	0.47uF	20%	50V	C957	1-130-480-00	MYLAR	0.0056uF	5%	50V
C839	1-124-902-00	ELECT	0.47uF	20%	50V	C958	1-130-479-00	MYLAR	0.0047uF	5%	50V
C840	1-162-305-11	CERAMIC	0.0068uF	30%	16V	C959	1-130-474-00	MYLAR	0.0018uF	5%	50V
C841	1-136-495-11	FILM	0.068uF	5%	50V	C960	1-126-964-11	ELECT	10uF	20%	50V
C842	1-162-600-11	CERAMIC	0.0047uF	30%	16V	C961	1-126-964-11	ELECT	10uF	20%	50V
C843	1-130-473-00	MYLAR	0.0015uF	5%	50V	C962	1-136-167-00	FILM	0.15uF	5%	50V
C844	1-124-903-11	ELECT	1uF	20%	50V	C963	1-136-167-00	FILM	0.15uF	5%	50V
C845	1-161-494-00	CERAMIC	0.022uF		25V	C964	1-126-964-11	ELECT	10uF	20%	50V
C846	1-126-933-11	ELECT	100uF	20%	10V	C965	1-136-153-00	FILM	0.01uF	5%	50V
C847	1-162-306-11	CERAMIC	0.01uF	30%	16V	C1001	1-126-937-11	ELECT	4700uF	20%	16V
C848	1-162-290-31	CERAMIC	470PF	10%	50V	C1002	1-126-943-11	ELECT	2200uF	20%	25V
C849	1-162-290-31	CERAMIC	470PF	10%	50V	C1004	1-126-916-11	ELECT	1000uF	20%	6.3V
C860	1-162-306-11	CERAMIC	0.01uF	30%	16V	C1005	1-126-964-11	ELECT	10uF	20%	50V
C861	1-162-306-11	CERAMIC	0.01uF	30%	16V	C1006	1-126-925-11	ELECT	470uF	20%	10V
C862	1-126-964-11	ELECT	10uF	20%	50V	C1007	1-126-934-11	ELECT	220uF	20%	16V
C863	1-162-306-11	CERAMIC	0.01uF	30%	16V	C1008	1-126-933-11	ELECT	100uF	20%	16V
C864	1-126-964-11	ELECT	10uF	20%	50V	C1009	1-162-294-31	CERAMIC	0.001uF	10%	50V
C865	1-162-306-11	CERAMIC	0.01uF	30%	16V	C1010	1-164-159-11	CERAMIC	0.1uF	50%	50V
C871	1-162-286-31	CERAMIC	220PF	10%	50V	C1011	1-164-159-11	CERAMIC	0.1uF	50%	50V
C872	1-162-286-31	CERAMIC	220PF	10%	50V	C1012	1-126-964-11	ELECT	10uF	20%	50V
C900	1-126-964-11	ELECT	10uF	20%	50V	C1013	1-126-916-11	ELECT	1000uF	20%	6.3V
C901	1-124-464-11	ELECT	0.22uF	20%	50V	C1014	1-126-964-11	ELECT	10uF	20%	50V
C902	1-124-464-11	ELECT	0.22uF	20%	50V	C1015	1-126-964-11	ELECT	10uF	20%	50V
C903	1-136-495-11	FILM	0.068uF	5%	50V	C1016	1-126-925-11	ELECT	470uF	20%	10V
C904	1-136-495-11	FILM	0.068uF	5%	50V	C1017	1-126-925-11	ELECT	470uF	20%	10V
C905	1-136-156-00	FILM	0.018uF	5%	50V	C1018	1-126-942-61	ELECT	1000uF	20%	25V
C906	1-136-156-00	FILM	0.018uF	5%	50V	C1020	1-126-947-11	ELECT	47uF	20%	35V
C907	1-130-480-00	MYLAR	0.0056uF	5%	50V	C1021	1-162-294-31	CERAMIC	0.001uF	10%	50V
C908	1-130-479-00	MYLAR	0.0047uF	5%	50V	C1022	1-126-969-11	ELECT	220uF	20%	50V
C909	1-130-474-00	MYLAR	0.0018uF	5%	50V	C1023	1-126-969-11	ELECT	220uF	20%	50V
						C1024	1-126-964-11	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description	Remark
C1025	1-126-964-11	ELECT	10uF 20% 50V
C1026	1-126-964-11	ELECT	10uF 20% 50V
C1027	1-126-964-11	ELECT	10uF 20% 50V
C1028	1-126-933-11	ELECT	100uF 20% 16V
C1290	1-126-963-11	ELECT	4.7uF 20% 50V
			(EXCEPT AEP,G,IT,UK,CIS,EE)
C1291	1-164-159-11	CERAMIC	0.1uF 50% 50V
			(EXCEPT AEP,G,IT,UK,CIS,EE)
< CONNECTOR >			
CN201	1-770-067-11	CONNECTOR, FFC/FPC 19P	
* CN202	1-568-936-11	PIN, CONNECTOR 9P (TH,IA)	
* CN203	1-568-935-11	PIN, CONNECTOR 8P (TH,IA)	
* CN250	1-568-834-11	SOCKET, CONNECTOR 15P	
			(EXCEPT US,CND,E2,AUS,AR,MX)
* CN250	1-568-832-11	SOCKET, CONNECTOR 13P	
			(US,CND,E2,AUS,AR,MX)
CN401	1-568-838-11	SOCKET, CONNECTOR 21P	
* CN402	1-568-830-11	SOCKET, CONNECTOR 11P	
* CN404	1-568-449-11	HOUSING, CONNECTOR (PC BOARD)3P	
* CN701	1-568-832-11	SOCKET, CONNECTOR 13P	
* CN1001	1-770-734-11	CONNECTOR, BOARD TO BOARD 20P	
CN1204	1-564-505-11	PLUG, CONNECTOR 2P	
			(EXCEPT AEP,G,IT,UK,CIS,EE)
< DIODE >			
D201	8-719-987-63	DIODE	1N4148M
D202	8-719-987-63	DIODE	1N4148M
D251	8-719-987-63	DIODE	1N4148M-TP (AEP,G,IT,UK,EE)
D401	8-719-933-54	DIODE	HZS9A2L
D701	8-719-987-63	DIODE	1N4148M
D702	8-719-987-63	DIODE	1N4148M
D703	8-719-987-63	DIODE	1N4148M
D704	8-719-987-63	DIODE	1N4148M
D705	8-719-987-63	DIODE	1N4148M
D706	8-719-200-82	DIODE	11ES2-NTA1B (IA)
D706	8-719-024-99	DIODE	11ES2-NTA2B (EXCEPT IA)
D707	8-719-987-63	DIODE	1N4148M
D801	8-719-987-63	DIODE	1N4148M
D802	8-719-987-63	DIODE	1N4148M
D901	8-719-987-63	DIODE	1N4148M
D902	8-719-987-63	DIODE	1N4148M
D1001	8-719-200-82	DIODE	11ES2-NTA1B (IA)
D1001	8-719-024-99	DIODE	11ES2-NTA2B (EXCEPT IA)
D1002	8-719-200-82	DIODE	11ES2-NTA1B (IA)
D1002	8-719-024-99	DIODE	11ES2-NTA2B (EXCEPT IA)
D1003	8-719-200-82	DIODE	11ES2-NTA1B (IA)
D1003	8-719-024-99	DIODE	11ES2-NTA2B (EXCEPT IA)
D1004	8-719-200-82	DIODE	11ES2-NTA1B (IA)
D1004	8-719-024-99	DIODE	11ES2-NTA2B (EXCEPT IA)
D1005	8-719-200-82	DIODE	11ES2-NTA1B (IA)
D1005	8-719-024-99	DIODE	11ES2-NTA2B (EXCEPT IA)
D1006	8-719-200-82	DIODE	11ES2-NTA1B (IA)

Ref. No.	Part No.	Description	Remark
D1006	8-719-024-99	DIODE	11ES2-NTA2B (EXCEPT IA)
D1007	8-719-987-63	DIODE	1N4148M
D1008	8-719-001-43	DIODE	UZL-11M1-TA (IA)
D1008	8-719-001-42	DIODE	UZL-11M1 (EXCEPT IA)
D1009	8-719-987-63	DIODE	1N4148M
D1010	8-719-987-63	DIODE	1N4148M
D1011	8-719-010-43	DIODE	UZ-5.6BSC
D1012	8-719-934-22	DIODE	UZL-30M-TP (EXCEPT IA)
D1012	8-719-011-05	DIODE	UZ-27BS-TA (IA)
D1013	8-719-200-82	DIODE	11ES2-NTA1B (IA)
D1013	8-719-024-99	DIODE	11ES2-NTA2B (EXCEPT IA)
D1014	8-719-200-82	DIODE	11ES2-NTA1B (IA)
D1014	8-719-024-99	DIODE	11ES2-NTA2B (EXCEPT IA)
D1015	8-719-987-63	DIODE	1N4148M
D1016	8-719-200-82	DIODE	11ES2-NTA1B (IA)
D1016	8-719-024-99	DIODE	11ES2-NTA2B (EXCEPT IA)
D1017	8-719-200-82	DIODE	11ES2-NTA1B (IA)
D1017	8-719-024-99	DIODE	11ES2-NTA2B (EXCEPT IA)
D1018	8-719-200-82	DIODE	11ES2-NTA1B (IA)
D1018	8-719-024-99	DIODE	11ES2-NTA2B (EXCEPT IA)
D1021	8-719-200-82	DIODE	11ES2-NTA1B (IA)
D1021	8-719-024-99	DIODE	11ES2-NTA2B (EXCEPT IA)
D1022	8-719-200-82	DIODE	11ES2-NTA1B (IA)
D1022	8-719-024-99	DIODE	11ES2-NTA2B (EXCEPT IA)
D1023	8-719-210-21	DIODE	11EQS04
D1024	8-719-210-21	DIODE	11EQS04
D1025	8-719-210-21	DIODE	11EQS04
< TERMINAL BOARD >			
EPT1001	1-537-770-21	TERMINAL BOARD, GROUND	
< IC >			
IC201	8-749-923-04	IC	TOTX178
IC250	8-759-169-99	IC	SAA6579 (AEP,G,IT,UK,EE)
IC251	8-759-634-51	IC	NJM4558D (AEP,G,IT,UK,EE)
IC401	8-759-289-38	IC	HA12195NT
IC402	8-759-822-09	IC	LB1641
IC701	8-759-375-44	IC	TMP87CS64YF-6361
IC702	8-759-165-80	IC	PST600C-T
IC802	8-759-000-48	IC	MC14052BCP
IC806	8-759-265-83	IC	M65843FP
IC807	8-759-140-53	IC	uPD4053BC
IC808	8-759-634-51	IC	M5218AP
IC901	8-759-331-39	IC	M62427FP
IC902	8-759-634-51	IC	M5218AP
IC1001	8-759-231-53	IC	TA7805S
IC1002	8-759-604-86	IC	M5F7807L
IC1003	8-759-604-86	IC	M5F7807L
IC1004	8-759-604-90	IC	M5F7907L

MAIN

Ref. No.	Part No.	Description	- Remark				Ref. No.	Part No.	Description	Remark			
		< JACK >											
J801	1-695-188-31	JACK, PIN 4P (VIDEO,MD/AUDIO IN/OUT)					R221	1-247-807-31	CARBON	100	5%	1/4W	
		< COIL >					R222	1-247-807-31	CARBON	100	5%	1/4W	
L250	1-410-521-11	INDUCTOR	100uH (AEP,G,IT,UK,EE)				R223	1-247-807-31	CARBON	100	5%	1/4W	
L840	1-410-521-11	INDUCTOR	100uH				R224	1-247-807-31	CARBON	100	5%	1/4W	
		< TRANSISTOR >					R250	1-249-421-11	CARBON	2.2K	5%	1/4W	(AEP,G,IT,UK,EE)
Q301	8-729-119-78	TRANSISTOR	2SC2785-HFE				R251	1-249-401-11	CARBON	47	5%	1/4W	(AEP,G,IT,UK,EE)
Q351	8-729-119-78	TRANSISTOR	2SC2785-HFE				R252	1-249-441-11	CARBON	100K	5%	1/4W	(AEP,G,IT,UK,EE)
Q401	8-729-119-78	TRANSISTOR	2SC2785-HFE				R253	1-249-441-11	CARBON	100K	5%	1/4W	(AEP,G,IT,UK,EE)
Q402	8-729-900-65	TRANSISTOR	DTA144ES				R254	1-249-426-11	CARBON	5.6K	5%	1/4W	(AEP,G,IT,UK,EE)
Q403	8-729-801-93	TRANSISTOR	2SD1387				R255	1-249-429-11	CARBON	10K	5%	1/4W	(AEP,G,IT,UK,EE)
Q406	8-729-900-80	TRANSISTOR	DTC114ES				R256	1-247-807-31	CARBON	100	5%	1/4W	(AEP,G,IT,UK,EE)
Q407	8-729-422-57	TRANSISTOR	UN4111				R301	1-249-430-11	CARBON	12K	5%	1/4W	
Q408	8-729-119-76	TRANSISTOR	2SA1175-HFE				R302	1-249-431-11	CARBON	15K	5%	1/4W	
Q409	8-729-900-80	TRANSISTOR	DTC114ES				R303	1-249-432-11	CARBON	18K	5%	1/4W	
Q410	8-729-900-65	TRANSISTOR	DTA144ES				R304	1-249-428-11	CARBON	8.2K	5%	1/4W	
Q411	8-729-900-65	TRANSISTOR	DTA144ES				R305	1-249-425-11	CARBON	4.7K	5%	1/4W	
Q412	8-729-900-65	TRANSISTOR	DTA144ES				R306	1-247-840-00	CARBON	2.4K	5%	1/4W	
Q701	8-729-119-78	TRANSISTOR	2SC2785-HFE				R307	1-249-433-11	CARBON	22K	5%	1/4W	
Q801	8-729-119-78	TRANSISTOR	2SC2785-HFE				R308	1-249-421-11	CARBON	2.2K	5%	1/4W	
Q802	8-729-422-57	TRANSISTOR	UN4111				R309	1-249-428-11	CARBON	8.2K	5%	1/4W	
Q803	8-729-119-78	TRANSISTOR	2SC2785-HFE				R310	1-249-417-11	CARBON	1K	5%	1/4W	
Q804	8-729-422-57	TRANSISTOR	UN4111				R351	1-249-430-11	CARBON	12K	5%	1/4W	
Q805	8-729-119-78	TRANSISTOR	2SC2785-HFE				R352	1-249-431-11	CARBON	15K	5%	1/4W	
Q806	8-729-422-57	TRANSISTOR	UN4111				R354	1-249-428-11	CARBON	8.2K	5%	1/4W	
Q807	8-729-900-80	TRANSISTOR	DTC114ES				R355	1-249-425-11	CARBON	4.7K	5%	1/4W	
Q808	8-729-119-76	TRANSISTOR	2SA1175-HFE				R356	1-247-840-00	CARBON	2.4K	5%	1/4W	
Q809	8-729-119-76	TRANSISTOR	2SA1175-HFE				R357	1-249-433-11	CARBON	22K	5%	1/4W	
Q820	8-729-422-57	TRANSISTOR	UN4111				R358	1-249-421-11	CARBON	2.2K	5%	1/4W	
Q901	8-729-119-78	TRANSISTOR	2SC2785-HFE				R359	1-249-428-11	CARBON	8.2K	5%	1/4W	
Q902	8-729-119-78	TRANSISTOR	2SC2785-HFE				R360	1-249-417-11	CARBON	1K	5%	1/4W	
Q951	8-729-119-78	TRANSISTOR	2SC2785-HFE				R401	1-249-425-11	CARBON	4.7K	5%	1/4W	
Q952	8-729-119-78	TRANSISTOR	2SC2785-HFE				R402	1-249-425-11	CARBON	4.7K	5%	1/4W	
Q953	8-729-141-26	TRANSISTOR	2SC3622A-LK				R403	1-249-425-11	CARBON	4.7K	5%	1/4W	
Q954	8-729-141-26	TRANSISTOR	2SC3622A-LK				R404	1-249-417-11	CARBON	1K	5%	1/4W	
Q1001	8-729-118-01	TRANSISTOR	2SB1116-K				R405	1-249-437-11	CARBON	47K	5%	1/4W	
Q1002	8-729-900-36	TRANSISTOR	DTC124ES				R406	1-249-437-11	CARBON	47K	5%	1/4W	
Q1003	8-729-030-18	TRANSISTOR	2SD2525				R407	1-249-437-11	CARBON	47K	5%	1/4W	
Q1006	8-729-030-19	TRANSISTOR	2SB1640				R408	1-249-437-11	CARBON	47K	5%	1/4W	
Q1290	8-729-119-76	TRANSISTOR	2SA1175-HFE				R409	1-249-429-11	CARBON	10K	5%	1/4W	
Q1291	8-729-111-29	TRANSISTOR	2SD1616A-K	(EXCEPT AEP,G,IT,UK,CIS,EE)			R410	1-247-882-11	CARBON	130K	5%	1/4W	
			(EXCEPT AEP,G,IT,UK,CIS,EE)				R411	1-247-866-11	CARBON	30K	5%	1/4W	
		< RESISTOR >					R412	1-249-429-11	CARBON	10K	5%	1/4W	
R201	1-249-415-11	CARBON	680	5%	1/4W		R413	1-247-864-11	CARBON	24K	5%	1/4W	
R202	1-249-435-11	CARBON	33K	5%	1/4W		R414	1-249-429-11	CARBON	10K	5%	1/4W	
R211	1-249-415-11	CARBON	680	5%	1/4W		R415	1-249-429-11	CARBON	10K	5%	1/4W	
R212	1-249-435-11	CARBON	33K	5%	1/4W		R416	1-249-429-11	CARBON	10K	5%	1/4W	
R220	1-247-807-31	CARBON	100	5%	1/4W		R417	1-249-429-11	CARBON	10K	5%	1/4W	
							R418	1-249-429-11	CARBON	10K	5%	1/4W	

Ref. No.	Part No.	Description		Remark
R419	1-249-429-11	CARBON	10K	5% 1/4W
R420	1-249-429-11	CARBON	10K	5% 1/4W
R421	1-249-429-11	CARBON	10K	5% 1/4W
R454	1-249-433-11	CARBON	22K	5% 1/4W
R455	1-249-433-11	CARBON	22K	5% 1/4W
R456	1-249-411-11	CARBON	330	5% 1/4W
R457	1-249-427-11	CARBON	6.8K	5% 1/4W
R458	1-249-429-11	CARBON	10K	5% 1/4W
R461	1-249-417-11	CARBON	1K	5% 1/4W
R701	1-249-429-11	CARBON	10K	5% 1/4W
R702	1-249-437-11	CARBON	47K	5% 1/4W
R703	1-249-437-11	CARBON	47K	5% 1/4W
R704	1-249-429-11	CARBON	10K	5% 1/4W
R705	1-249-429-11	CARBON	10K	5% 1/4W
R706	1-249-429-11	CARBON	10K	5% 1/4W
R708	1-249-429-11	CARBON	10K	5% 1/4W
R709	1-249-441-11	CARBON	100K	5% 1/4W
R710	1-249-429-11	CARBON	10K	5% 1/4W
R712	1-249-429-11	CARBON	10K	5% 1/4W
R713	1-249-429-11	CARBON	10K	5% 1/4W
R714	1-249-429-11	CARBON	10K	5% 1/4W
R715	1-249-429-11	CARBON	10K	5% 1/4W
R716	1-247-807-31	CARBON	100	5% 1/4W
R717	1-247-807-31	CARBON	100	5% 1/4W
R718	1-247-807-31	CARBON	100	5% 1/4W
R719	1-247-807-31	CARBON	100	5% 1/4W
R720	1-247-807-31	CARBON	100	5% 1/4W
R721	1-247-807-31	CARBON	100	5% 1/4W
R722	1-247-807-31	CARBON	100	5% 1/4W (AEP,G,IT,UK,EE)
R723	1-247-807-31	CARBON	100	5% 1/4W (AEP,G,IT,UK,EE)
R724	1-247-807-31	CARBON	100	5% 1/4W
R725	1-247-807-31	CARBON	100	5% 1/4W
R726	1-247-807-31	CARBON	100	5% 1/4W
R727	1-247-807-31	CARBON	100	5% 1/4W
R728	1-247-807-31	CARBON	100	5% 1/4W
R729	1-247-807-31	CARBON	100	5% 1/4W
R730	1-247-807-31	CARBON	100	5% 1/4W
R731	1-247-807-31	CARBON	100	5% 1/4W
R732	1-247-807-31	CARBON	100	5% 1/4W
R733	1-247-807-31	CARBON	100	5% 1/4W
R734	1-247-807-31	CARBON	100	5% 1/4W
R735	1-247-807-31	CARBON	100	5% 1/4W
R736	1-247-807-31	CARBON	100	5% 1/4W
R737	1-247-807-31	CARBON	100	5% 1/4W
R740	1-249-433-11	CARBON	22K	5% 1/4W (CIS)
R740	1-249-429-11	CARBON	10K	5% 1/4W (AEP,UK)
R740	1-249-427-11	CARBON	6.8K	5% 1/4W (G,IT,AR,MX,E2,H881D:US,CND)
R740	1-249-415-11	CARBON	680	5% 1/4W (JE)

Ref. No.	Part No.	Description		Remark
R740	1-249-423-11	CARBON	3.3K	5% 1/4W (AUS)
R740	1-249-435-11	CARBON	33K	5% 1/4W (EE)
R741	1-249-423-11	CARBON	3.3K	5% 1/4W (AEP,G,IT,UK)
R741	1-249-425-11	CARBON	4.7K	5% 1/4W (AR,MX,E2,H881D:US,CND)
R741	1-249-429-11	CARBON	10K	5% 1/4W (AUS)
R741	1-249-431-11	CARBON	15K	5% 1/4W (JE)
R741	1-249-421-11	CARBON	2.2K	5% 1/4W (CIS)
R741	1-249-427-11	CARBON	6.8K	5% 1/4W (EE)
R742	1-249-413-11	CARBON	470	5% 1/4W
R743	1-247-807-31	CARBON	100	5% 1/4W
R744	1-247-807-31	CARBON	100	5% 1/4W
R745	1-247-807-31	CARBON	100	5% 1/4W
R753	1-247-807-31	CARBON	100	5% 1/4W
R755	1-247-807-31	CARBON	100	5% 1/4W
R757	1-247-807-31	CARBON	100	5% 1/4W
R758	1-247-807-31	CARBON	100	5% 1/4W
R759	1-247-807-31	CARBON	100	5% 1/4W
R760	1-247-807-31	CARBON	100	5% 1/4W
R761	1-247-807-31	CARBON	100	5% 1/4W
R762	1-249-429-11	CARBON	10K	5% 1/4W
R763	1-249-429-11	CARBON	10K	5% 1/4W
R764	1-247-807-31	CARBON	100	5% 1/4W
R769	1-249-417-11	CARBON	1K	5% 1/4W
R771	1-247-807-31	CARBON	100	5% 1/4W
R772	1-247-807-31	CARBON	100	5% 1/4W
R773	1-247-807-31	CARBON	100	5% 1/4W
R774	1-247-807-31	CARBON	100	5% 1/4W
R775	1-247-807-31	CARBON	100	5% 1/4W
R777	1-249-429-11	CARBON	10K	5% 1/4W
R778	1-249-429-11	CARBON	10K	5% 1/4W
R810	1-249-417-11	CARBON	1K	5% 1/4W
R811	1-249-417-11	CARBON	1K	5% 1/4W
R821	1-249-423-11	CARBON	3.3K	5% 1/4W
R822	1-249-427-11	CARBON	6.8K	5% 1/4W
R823	1-249-417-11	CARBON	1K	5% 1/4W
R824	1-249-441-11	CARBON	100K	5% 1/4W
R825	1-247-887-00	CARBON	220K	5% 1/4W
R826	1-249-441-11	CARBON	100K	5% 1/4W
R827	1-249-429-11	CARBON	10K	5% 1/4W
R837	1-249-429-11	CARBON	10K	5% 1/4W
R838	1-249-431-11	CARBON	15K	5% 1/4W
R839	1-249-431-11	CARBON	15K	5% 1/4W
R840	1-249-399-11	CARBON	33	5% 1/4W
R841	1-249-421-11	CARBON	2.2K	5% 1/4W

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R842	1-249-433-11	CARBON	22K 5% 1/4W	R916	1-249-441-11	CARBON	100K 5% 1/4W
R843	1-249-431-11	CARBON	15K 5% 1/4W	R917	1-249-431-11	CARBON	15K 5% 1/4W
R844	1-249-431-11	CARBON	15K 5% 1/4W	R920	1-249-441-11	CARBON	100K 5% 1/4W
R845	1-249-429-11	CARBON	10K 5% 1/4W	R921	1-249-437-11	CARBON	47K 5% 1/4W
R846	1-249-431-11	CARBON	15K 5% 1/4W	R922	1-247-903-00	CARBON	1M 5% 1/4W
R847	1-249-417-11	CARBON	1K 5% 1/4W	R923	1-249-429-11	CARBON	10K 5% 1/4W
R848	1-247-903-00	CARBON	1M 5% 1/4W	R924	1-247-903-00	CARBON	1M 5% 1/4W
R849	1-249-427-11	CARBON	6.8K 5% 1/4W	R930	1-249-433-11	CARBON	22K 5% 1/4W
R860	1-249-437-11	CARBON	47K 5% 1/4W	R931	1-249-433-11	CARBON	22K 5% 1/4W
R861	1-249-431-11	CARBON	15K 5% 1/4W	R932	1-249-429-11	CARBON	10K 5% 1/4W
R862	1-249-427-11	CARBON	6.8K 5% 1/4W	R933	1-247-903-00	CARBON	1M 5% 1/4W
R863	1-247-887-00	CARBON	220K 5% 1/4W	R938	1-247-807-31	CARBON	100 5% 1/4W
R864	1-247-887-00	CARBON	220K 5% 1/4W	R939	1-247-807-31	CARBON	100 5% 1/4W
R865	1-247-887-00	CARBON	220K 5% 1/4W	R940	1-249-429-11	CARBON	10K 5% 1/4W
R866	1-249-441-11	CARBON	100K 5% 1/4W	R941	1-249-429-11	CARBON	10K 5% 1/4W
R867	1-249-441-11	CARBON	100K 5% 1/4W	R942	1-249-429-11	CARBON	10K 5% 1/4W
R868	1-249-441-11	CARBON	100K 5% 1/4W	R947	1-247-807-31	CARBON	100 5% 1/4W
R871	1-249-423-11	CARBON	3.3K 5% 1/4W	R951	1-249-425-11	CARBON	4.7K 5% 1/4W
R872	1-249-427-11	CARBON	6.8K 5% 1/4W	R952	1-249-429-11	CARBON	10K 5% 1/4W
R873	1-249-417-11	CARBON	1K 5% 1/4W	R953	1-249-437-11	CARBON	47K 5% 1/4W
R874	1-249-441-11	CARBON	100K 5% 1/4W	R955	1-249-441-11	CARBON	100K 5% 1/4W
R875	1-249-429-11	CARBON	10K 5% 1/4W	R956	1-247-903-00	CARBON	1M 5% 1/4W
R876	1-249-429-11	CARBON	10K 5% 1/4W	R957	1-249-441-11	CARBON	100K 5% 1/4W
R877	1-249-429-11	CARBON	10K 5% 1/4W	R958	1-249-429-11	CARBON	10K 5% 1/4W
R880	1-249-421-11	CARBON	2.2K 5% 1/4W	R959	1-249-417-11	CARBON	1K 5% 1/4W
R881	1-249-421-11	CARBON	2.2K 5% 1/4W	R960	1-249-429-11	CARBON	10K 5% 1/4W
R882	1-249-417-11	CARBON	1K 5% 1/4W	R961	1-249-421-11	CARBON	2.2K 5% 1/4W
R883	1-249-429-11	CARBON	10K 5% 1/4W	R962	1-249-441-11	CARBON	100K 5% 1/4W
R884	1-249-423-11	CARBON	3.3K 5% 1/4W	R963	1-249-429-11	CARBON	10K 5% 1/4W
R885	1-249-437-11	CARBON	47K 5% 1/4W	R964	1-249-437-11	CARBON	47K 5% 1/4W
R887	1-249-431-11	CARBON	15K 5% 1/4W	R965	1-249-441-11	CARBON	100K 5% 1/4W
R888	1-249-429-11	CARBON	10K 5% 1/4W	R966	1-249-441-11	CARBON	100K 5% 1/4W
R890	1-249-433-11	CARBON	22K 5% 1/4W	R967	1-249-431-11	CARBON	15K 5% 1/4W
R891	1-249-433-11	CARBON	22K 5% 1/4W	R973	1-249-429-11	CARBON	10K 5% 1/4W
R892	1-249-441-11	CARBON	100K 5% 1/4W	R974	1-247-903-00	CARBON	1M 5% 1/4W
R893	1-249-433-11	CARBON	22K 5% 1/4W	R1001	1-249-421-11	CARBON	2.2K 5% 1/4W
R894	1-249-417-11	CARBON	1K 5% 1/4W	R1002	1-249-409-11	CARBON	220 5% 1/4W
R895	1-249-433-11	CARBON	22K 5% 1/4W	R1003	1-249-417-11	CARBON	1K 5% 1/4W
R901	1-249-425-11	CARBON	4.7K 5% 1/4W	R1006	1-249-417-11	CARBON	1K 5% 1/4W
R902	1-249-429-11	CARBON	10K 5% 1/4W	R1020	1-249-409-11	CARBON	220 5% 1/4W
R903	1-249-437-11	CARBON	47K 5% 1/4W	R1021	1-249-409-11	CARBON	220 5% 1/4W
R905	1-249-441-11	CARBON	100K 5% 1/4W	R1022	1-249-421-11	CARBON	2.2K 5% 1/4W
R906	1-247-903-00	CARBON	1M 5% 1/4W	R1023	1-249-417-11	CARBON	1K 5% 1/4W
R907	1-249-441-11	CARBON	100K 5% 1/4W	R1296	1-249-425-11	CARBON	4.7K 5% 1/4W
R908	1-249-429-11	CARBON	10K 5% 1/4W	(EXCEPT AEP,G,IT,UK,CIS,EE)			
R909	1-249-417-11	CARBON	1K 5% 1/4W	R1297	1-249-435-11	CARBON	33K 5% 1/4W
R910	1-249-429-11	CARBON	10K 5% 1/4W	(EXCEPT AEP,G,IT,UK,CIS,EE)			
R911	1-249-421-11	CARBON	2.2K 5% 1/4W	R1298	1-249-421-11	CARBON	2.2K 5% 1/4W
R912	1-249-441-11	CARBON	100K 5% 1/4W	(EXCEPT AEP,G,IT,UK,CIS,EE)			
R913	1-249-429-11	CARBON	10K 5% 1/4W				
R914	1-249-437-11	CARBON	47K 5% 1/4W				
R915	1-249-441-11	CARBON	100K 5% 1/4W				

MAIN
MOTOR (SLIDE)
MOTOR (TURN)
PANEL

Ref. No.	Part No.	Description	Remark
< VARIABLE RESISTOR >			
RV301	1-241-630-11	RES, ADJ, CARBON 10K (REC LEVEL L)	
RV351	1-241-630-11	RES, ADJ, CARBON 10K (REC LEVEL R)	
< VIBRATOR >			
X81	1-579-900-11	VIBRATOR, CRYSTAL (4.332MHz)	(AEP,G,IT,UK,EE)
X701	1-579-175-11	VIBRATOR, CERAMIC (10MHz)	
X701	1-760-904-21	VIBRATOR, CERAMIC (10MHz)	
X702	1-567-098-41	VIBRATOR, CRYSTAL (32kHz)	
X801	1-527-978-00	OSCILLATOR, CERAMIC (320kHz)	

*	1-658-578-12	MOTOR (SLIDE) BOARD	*****
< CAPACITOR >			
C801	1-162-306-11	CERAMIC	0.01uF 30% 16V
C804	1-162-306-11	CERAMIC	0.01uF 30% 16V
C805	1-126-964-11	ELECT	10uF 20% 50V
< CONNECTOR >			
* CN801	1-568-947-11	PIN, CONNECTOR 9P	
< DIODE >			
D801	8-719-010-43	DIODE UZ-5.6BSC-TP	
< IC >			
IC801	8-759-274-09	IC BA6286N	
< RESISTOR >			
R801	1-249-401-11	CARBON	47 5% 1/4W
< SWITCH >			
S801	1-762-527-11	SWITCH, ROTARY (OPEN SW)	

*	1-658-577-11	MOTOR (TURN) BOARD	*****
< CAPACITOR >			
C701	1-162-306-11	CERAMIC	0.01uF 30% 16V
C702	1-126-964-11	ELECT	10uF 20% 50V
C705	1-162-306-11	CERAMIC	0.01uF 30% 16V
< CONNECTOR >			
CN703	1-750-413-11	CONNECTOR, FFC/FPC 8P	
CN704	1-506-469-11	PIN, CONNECTOR 4P	
< DIODE >			
D701	8-719-010-23	DIODE UZ-3.6BSB-TP	

Ref. No.	Part No.	Description	Remark
< IC >			
IC701	8-759-633-65	IC M54641L	
< RESISTOR >			
R706	1-249-411-11	CARBON	330 5% 1/4W

*	A-4389-026-A	PANEL BOARD, COMPLETE (AR,AUS,MX,E2,EE,TH)	
*	A-4389-024-A	PANEL BOARD, COMPLETE (US,CND)	
*	A-4389-025-A	PANEL BOARD, COMPLETE (AEP,G,IT,UK)	
*	A-4389-027-A	PANEL BOARD, COMPLETE (EA,E3,HK,JE,MY,SP,CIS,TW)	

*	4-932-810-11	CUSHION (FL)	
*	4-971-014-11	HOLDER, FL TUBE	
< CAPACITOR >			
C500	1-162-306-11	CERAMIC	0.01uF 30% 16V
C501	1-126-154-11	ELECT	47uF 20% 6.3V
C502	1-162-282-31	CERAMIC	100PF 10% 50V
C504	1-162-294-31	CERAMIC	0.001uF 10% 50V
C505	1-126-154-11	ELECT	47uF 20% 6.3V
C506	1-126-160-11	ELECT	1uF 20% 50V
C507	1-162-294-31	CERAMIC	0.001uF 10% 50V
C508	1-126-160-11	ELECT	1uF 20% 50V
C509	1-162-294-31	CERAMIC	0.001uF 10% 50V
C510	1-162-282-31	CERAMIC	100PF 10% 50V
C511	1-162-282-31	CERAMIC	100PF 10% 50V
C512	1-162-282-31	CERAMIC	100PF 10% 50V
C513	1-162-282-31	CERAMIC	100PF 10% 50V
C514	1-162-282-31	CERAMIC	100PF 10% 50V
C515	1-162-282-31	CERAMIC	100PF 10% 50V
C516	1-162-282-31	CERAMIC	100PF 10% 50V
C517	1-162-282-31	CERAMIC	100PF 10% 50V
C518	1-162-282-31	CERAMIC	100PF 10% 50V
C519	1-162-282-31	CERAMIC	100PF 10% 50V
C520	1-162-282-31	CERAMIC	100PF 10% 50V
C521	1-162-282-31	CERAMIC	100PF 10% 50V
C522	1-162-282-31	CERAMIC	100PF 10% 50V
C523	1-162-282-31	CERAMIC	100PF 10% 50V
C524	1-162-306-11	CERAMIC	0.01uF 30% 16V
C525	1-162-306-11	CERAMIC	0.01uF 30% 16V
C526	1-162-306-11	CERAMIC	0.01uF 30% 16V
C527	1-162-306-11	CERAMIC	0.01uF 30% 16V
C530	1-126-160-11	ELECT	1uF 20% 50V
C531	1-136-161-00	FILM	0.047uF 5% 50V
C532	1-124-464-11	ELECT	0.22uF 20% 50V
C533	1-124-464-11	ELECT	0.22uF 20% 50V
C534	1-162-306-11	CERAMIC	0.01uF 30% 16V
C535	1-124-464-11	ELECT	0.22uF 20% 50V
C536	1-136-159-00	FILM	0.033uF 5% 50V

PANEL

Ref. No.	Part No.	Description	Remark
C537	1-162-302-11	CERAMIC	0.0022uF 30% 16V
C538	1-124-464-11	ELECT	0.22uF 20% 50V
C539	1-162-288-31	CERAMIC	330PF 10% 50V
C540	1-124-464-11	ELECT	0.22uF 20% 50V
C641	1-126-163-11	ELECT	4.7uF 20% 50V

< CONNECTOR >

* CN500	1-568-856-11	SOCKET, CONNECTOR 13P
* CN502	1-568-947-11	PIN, CONNECTOR 9P
* CN503	1-568-946-11	PIN, CONNECTOR 8P

< DIODE >

D500	8-719-058-03	LED	SEL5423E-TP15 (TUNER/BAND)
D501	8-719-033-06	LED	SEL5920A (CLIP C)
D502	8-719-033-06	LED	SEL5920A (DSP)
D502A	8-719-033-06	LED	SEL5920A (DSP)
D503	8-719-033-06	LED	SEL5920A (CLIP B)
D504	8-719-033-06	LED	SEL5920A (DIGITAL ECHO)
D504A	8-719-033-06	LED	SEL5920A (DIGITAL ECHO)
D505	8-719-033-06	LED	SEL5920A (CLIP A)
D506	8-719-058-17	LED	LNJ401NPYTJA (GROOVE)
D507	8-719-057-09	LED	LNJ801LPDJA (EFFECT ON/OFF)
D529	8-719-033-06	LED	SEL5920A (CD)
D531	8-719-033-06	LED	SEL5920A (1/ALL DISCS)
D533	8-719-033-06	LED	SEL5920A (PLAY MODE)
D535	8-719-033-06	LED	SEL5920A (REPEAT)
D537	8-719-033-06	LED	SEL5920A (EDIT)
D539	8-719-033-06	LED	SEL5920A (TUNER)
D541	8-719-033-06	LED	SEL5920A (TUNING MODE)
D543	8-719-033-06	LED	SEL5920A (TUNER MEMORY)
D545	8-719-033-06	LED	SEL5920A (STEREO MONO)
D547	8-719-033-06	LED	SEL5920A (PTY)
D549	8-719-033-06	LED	SEL5920A (TIMER)
D551	8-719-033-06	LED	SEL5920A (CLOCK SET)
D553	8-719-033-06	LED	SEL5920A (⊙ SET)
D555	8-719-033-06	LED	SEL5920A (⊙ SELECT)
D557	8-719-033-06	LED	SEL5920A (SLEEP)
D559	8-719-987-63	DIODE	1N4148M
D560	8-719-987-63	DIODE	1N4148M
D561	8-719-987-63	DIODE	1N4148M
D562	8-719-987-63	DIODE	1N4148M
D563	8-719-987-63	DIODE	1N4148M

< INDICATOR TUBE >

FL501	1-517-483-11	INDICATOR TUBE, FLUORESCENT
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< IC >

IC500	8-759-375-43	IC ASD0204-012-3BA
IC501	8-759-332-18	IC GP1U27XB

Ref. No.	Part No.	Description	Remark
< TRANSISTOR >			
Q500	8-729-119-78	TRANSISTOR	2SC2785-HFE
Q501	8-729-118-00	TRANSISTOR	2SB1116-L
Q502	8-729-118-00	TRANSISTOR	2SB1116-L
Q503	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q504	8-729-119-76	TRANSISTOR	2SA1175-HFE

Q505	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q506	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q514	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q515	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q516	8-729-119-76	TRANSISTOR	2SA1175-HFE

Q517	8-729-111-29	TRANSISTOR	2SD1616A-K
Q518	8-729-111-29	TRANSISTOR	2SD1616A-K
Q519	8-729-111-29	TRANSISTOR	2SD1616A-K
Q520	8-729-119-78	TRANSISTOR	2SC2785-HFE

< RESISTOR >

R500	1-247-887-00	CARBON	220K	5%	1/4W
R501	1-247-903-00	CARBON	1M	5%	1/4W
R502	1-249-429-11	CARBON	10K	5%	1/4W
R503	1-249-429-11	CARBON	10K	5%	1/4W
R504	1-249-429-11	CARBON	10K	5%	1/4W

R505	1-249-429-11	CARBON	10K	5%	1/4W
R506	1-249-429-11	CARBON	10K	5%	1/4W
R507	1-249-429-11	CARBON	10K	5%	1/4W
R508	1-249-429-11	CARBON	10K	5%	1/4W
R510	1-247-807-31	CARBON	100	5%	1/4W

R511	1-247-807-31	CARBON	100	5%	1/4W
R512	1-247-807-31	CARBON	100	5%	1/4W
R513	1-247-807-31	CARBON	100	5%	1/4W
R514	1-247-807-31	CARBON	100	5%	1/4W
R515	1-247-807-31	CARBON	100	5%	1/4W

R516	1-249-441-11	CARBON	100K	5%	1/4W
R517	1-249-419-11	CARBON	1.5K	5%	1/4W
R526	1-249-415-11	CARBON	680	5%	1/4W
R527	1-249-417-11	CARBON	1K	5%	1/4W
R528	1-249-419-11	CARBON	1.5K	5%	1/4W

R529	1-249-421-11	CARBON	2.2K	5%	1/4W
R530	1-249-423-11	CARBON	3.3K	5%	1/4W
R531	1-249-427-11	CARBON	6.8K	5%	1/4W
R532	1-249-431-11	CARBON	15K	5%	1/4W
R533	1-249-419-11	CARBON	1.5K	5%	1/4W

R534	1-249-401-11	CARBON	47	5%	1/4W
R535	1-249-403-11	CARBON	68	5%	1/4W
R536	1-247-807-31	CARBON	100	5%	1/4W
R537	1-249-407-11	CARBON	150	5%	1/4W
R538	1-249-407-11	CARBON	150	5%	1/4W

R539	1-249-409-11	CARBON	220	5%	1/4W
R540	1-249-411-11	CARBON	330	5%	1/4W
R547	1-249-419-11	CARBON	1.5K	5%	1/4W
R548	1-249-401-11	CARBON	47	5%	1/4W
R549	1-249-403-11	CARBON	68	5%	1/4W

PANEL
POLAR

Ref. No.	Part No.	Description	Remark
R550	1-247-807-31	CARBON	100 5% 1/4W
R551	1-249-407-11	CARBON	150 5% 1/4W
R552	1-249-407-11	CARBON	150 5% 1/4W
R563	1-249-419-11	CARBON	1.5K 5% 1/4W
R564	1-249-401-11	CARBON	47 5% 1/4W
R565	1-249-413-11	CARBON	470 5% 1/4W
R566	1-249-409-11	CARBON	220 5% 1/4W
R567	1-249-411-11	CARBON	330 5% 1/4W
R576	1-249-429-11	CARBON	10K 5% 1/4W
R577	1-249-421-11	CARBON	2.2K 5% 1/4W
R578	1-249-429-11	CARBON	10K 5% 1/4W
R579	1-249-421-11	CARBON	2.2K 5% 1/4W
R580	1-247-807-31	CARBON	100 5% 1/4W
R581	1-249-407-11	CARBON	150 5% 1/4W
R582	1-249-403-11	CARBON	68 5% 1/4W
R583	1-249-407-11	CARBON	150 5% 1/4W
R584	1-249-403-11	CARBON	68 5% 1/4W
R585	1-249-407-11	CARBON	150 5% 1/4W
R586	1-247-807-31	CARBON	100 5% 1/4W
R587	1-249-407-11	CARBON	150 5% 1/4W
R616	1-247-807-31	CARBON	100 5% 1/4W
R617	1-247-807-31	CARBON	100 5% 1/4W
R618	1-247-807-31	CARBON	100 5% 1/4W
R619	1-247-807-31	CARBON	100 5% 1/4W
R620	1-247-807-31	CARBON	100 5% 1/4W
R621	1-247-807-31	CARBON	100 5% 1/4W
R622	1-247-807-31	CARBON	100 5% 1/4W
R623	1-247-807-31	CARBON	100 5% 1/4W
R624	1-247-807-31	CARBON	100 5% 1/4W
R625	1-247-807-31	CARBON	100 5% 1/4W
R626	1-247-807-31	CARBON	100 5% 1/4W
R627	1-247-807-31	CARBON	100 5% 1/4W
R628	1-247-807-31	CARBON	100 5% 1/4W
R629	1-247-807-31	CARBON	100 5% 1/4W
R630	1-247-807-31	CARBON	100 5% 1/4W
R631	1-247-897-11	CARBON	560K 5% 1/4W
R632	1-247-897-11	CARBON	560K 5% 1/4W
R633	1-247-897-11	CARBON	560K 5% 1/4W
R634	1-247-897-11	CARBON	560K 5% 1/4W
R646	1-249-417-11	CARBON	1K 5% 1/4W
R647	1-249-417-11	CARBON	1K 5% 1/4W
R648	1-249-417-11	CARBON	1K 5% 1/4W
R649	1-249-401-11	CARBON	47 5% 1/4W
R650	1-249-429-11	CARBON	10K 5% 1/4W
R651	1-249-429-11	CARBON	10K 5% 1/4W
R652	1-249-429-11	CARBON	10K 5% 1/4W
R653	1-249-419-11	CARBON	1.5K 5% 1/4W
R654	1-249-437-11	CARBON	47K 5% 1/4W
R655	1-247-895-00	CARBON	470K 5% 1/4W
R656	1-249-419-11	CARBON	1.5K 5% 1/4W
R657	1-249-437-11	CARBON	47K 5% 1/4W
R658	1-247-895-00	CARBON	470K 5% 1/4W

Ref. No.	Part No.	Description	Remark
R659	1-249-419-11	CARBON	1.5K 5% 1/4W
R660	1-249-437-11	CARBON	47K 5% 1/4W
R661	1-247-895-00	CARBON	470K 5% 1/4W
R662	1-249-437-11	CARBON	47K 5% 1/4W
R663	1-247-895-00	CARBON	470K 5% 1/4W
R665	1-249-441-11	CARBON	100K 5% 1/4W
R666	1-249-429-11	CARBON	10K 5% 1/4W
< SWITCH >			
S509	1-554-303-21	SWITCH, TACTILE (TIMER)	
S510	1-554-303-21	SWITCH, TACTILE (DSP)	
S511	1-554-303-21	SWITCH, TACTILE (DIGITAL ECHO)	
S512	1-554-303-21	SWITCH, TACTILE (1/ALL DISCS)	
S513	1-554-303-21	SWITCH, TACTILE (PLAY MODE)	
S514	1-554-303-21	SWITCH, TACTILE (REPEAT)	
S515	1-554-303-21	SWITCH, TACTILE (EDIT)	
S517	1-554-303-21	SWITCH, TACTILE (DISPLAY/DEMO)	
S519	1-554-303-21	SWITCH, TACTILE (CLIP PLAY)	
S520	1-554-303-21	SWITCH, TACTILE (CLIP ERASE)	
S521	1-554-303-21	SWITCH, TACTILE (CLIP A)	
S522	1-554-303-21	SWITCH, TACTILE (CLIP B)	
S523	1-554-303-21	SWITCH, TACTILE (CLIP C)	
S530	1-554-303-21	SWITCH, TACTILE (MENU 1)	
S531	1-554-303-21	SWITCH, TACTILE (MENU 2)	
S532	1-554-303-21	SWITCH, TACTILE (MENU 3)	
S533	1-554-303-21	SWITCH, TACTILE (MENU 4)	
S534	1-554-303-21	SWITCH, TACTILE (P.FILE)	
S535	1-554-303-21	SWITCH, TACTILE (EFFECT ON/OFF)	
S551	1-554-303-21	SWITCH, TACTILE (TUNER/BAND)	
S552	1-554-303-21	SWITCH, TACTILE (FUNCTION)	
S553	1-554-303-21	SWITCH, TACTILE (GROOVE)	
< VIBRATOR >			
X500	1-579-233-11	VIBRATOR, CERAMIC (5MHz)	
X500	1-760-489-11	VIBRATOR, CERAMIC (5MHz)	

*	A-4377-454-A	POLAR BOARD, COMPLETE (CIS)	

< CAPACITOR >			
C1701	1-162-294-31	CERAMIC	0.001uF 10% 50V (CIS)
C1702	1-130-014-00	FILM	470PF 5% 50V (CIS)
C1703	1-124-902-00	ELECT	0.47uF 20% 50V (CIS)
C1704	1-124-902-00	ELECT	0.47uF 20% 50V (CIS)
C1705	1-164-098-11	CERAMIC	0.047uF 1 2V (CIS)
C1706	1-124-903-11	ELECT	1uF 20% 50V (CIS)
C1707	1-162-288-31	CERAMIC	330PF 10% 50V (CIS)
C1710	1-137-364-11	FILM	0.001uF 5% 50V (CIS)
C1711	1-137-364-11	FILM	0.001uF 5% 50V (CIS)
C1712	1-130-736-11	FILM	0.01uF 5% 50V (CIS)
C1713	1-130-736-11	FILM	0.01uF 5% 50V (CIS)

POLAR
POWER

Ref. No.	Part No.	Description			Remark	
C1714	1-124-903-11	ELECT	1uF	20%	50V	(CIS)
C1715	1-124-903-11	ELECT	1uF	20%	50V	(CIS)
C1716	1-124-903-11	ELECT	1uF	20%	50V	(CIS)
C1719	1-104-664-11	ELECT	47uF	20%	16V	(CIS)
C1720	1-162-306-11	CERAMIC	0.01uF	30%	16V	(CIS)
C1723	1-162-306-11	CERAMIC	0.01uF	30%	16V	(CIS)
C1724	1-162-306-11	CERAMIC	0.01uF	30%	16V	(CIS)
C1725	1-104-664-11	ELECT	47uF	20%	16V	(CIS)
C1726	1-124-903-11	ELECT	1uF	20%	50V	(CIS)
C1727	1-124-903-11	ELECT	1uF	20%	50V	(CIS)
C1728	1-104-663-11	ELECT	33uF	20%	16V	(CIS)
< CONNECTOR >						
* CN1701	1-568-832-11	SOCKET, CONNECTOR 13P (CIS)				
< TRIMMER >						
CT1701	1-141-260-00	CAP, TRIMMER	50PF (CIS)			
< DIODE >						
D1701	8-719-987-63	DIODE	1N4148M (CIS)			
D1703	8-719-987-63	DIODE	1N4148M (CIS)			
D1704	8-719-987-63	DIODE	1N4148M (CIS)			
D1705	8-719-987-63	DIODE	1N4148M (CIS)			
< IC >						
IC1701	8-759-063-04	IC	IR3R42 (CIS)			
IC1703	8-759-140-53	IC	uPD4053BC (CIS)			
< COIL >						
L1701	1-409-497-11	COIL (FILTER) (SUB CARRIER) (CIS)				
< TRANSISTOR >						
Q1701	8-729-900-61	TRANSISTOR	DTA114ES (CIS)			
Q1702	8-729-900-80	TRANSISTOR	DTC114ES (CIS)			
Q1704	8-729-900-80	TRANSISTOR	DTC114ES (CIS)			
< RESISTOR >						
R1701	1-249-433-11	CARBON	22K	5%	1/4W	(CIS)
R1702	1-249-435-11	CARBON	33K	5%	1/4W	(CIS)
R1703	1-249-427-11	CARBON	6.8K	5%	1/4W	(CIS)
R1704	1-247-858-11	CARBON	13K	5%	1/4W	(CIS)
R1705	1-249-417-11	CARBON	1K	5%	1/4W	(CIS)
R1706	1-249-417-11	CARBON	1K	5%	1/4W	(CIS)
R1707	1-249-441-11	CARBON	100K	5%	1/4W	(CIS)
R1708	1-249-440-11	CARBON	82K	5%	1/4W	(CIS)
R1709	1-249-437-11	CARBON	47K	5%	1/4W	(CIS)
R1710	1-249-429-11	CARBON	10K	5%	1/4W	(CIS)
R1711	1-249-429-11	CARBON	10K	5%	1/4W	(CIS)
R1714	1-249-426-11	CARBON	5.6K	5%	1/4W	(CIS)
R1715	1-249-426-11	CARBON	5.6K	5%	1/4W	(CIS)
R1716	1-249-441-11	CARBON	100K	5%	1/4W	(CIS)

Ref. No.	Part No.	Description	Remark			
R1717	1-249-441-11	CARBON	100K	5%	1/4W	(CIS)
R1718	1-249-429-11	CARBON	10K	5%	1/4W	(CIS)
R1719	1-249-429-11	CARBON	10K	5%	1/4W	(CIS)
R1721	1-249-434-11	CARBON	27K	5%	1/4W	(CIS)
R1722	1-249-441-11	CARBON	100K	5%	1/4W	(CIS)
< VARIABLE RESISTOR >						
RV1701	1-238-600-11	RES, ADJ, CARBON 10K (SUB CARRIER)	(CIS)			
RV1702	1-238-599-11	RES, ADJ, CARBON 4.7K(VCO FREQUENCY)	(CIS)			
< TEST PIN >						
* TP1701	1-560-061-00	PIN, CONNECTOR 3P	(CIS)			
* TP1702	1-560-061-00	PIN, CONNECTOR 3P	(CIS)			

*	A-4389-042-A	POWER BOARD, COMPLETE (AR,AUS,EA,SP,TW,MY,MX,JE,HK,E,TH)				
*	A-4389-040-A	POWER BOARD, COMPLETE (H881:US,CND)				
*	A-4389-041-A	POWER BOARD, COMPLETE (AEP,G,IT,UK,CIS,EE)				
*	A-4389-022-A	POWER BOARD, COMPLETE (H881D:US,CND) *****				
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S				
< CAPACITOR >						
C1201	1-126-963-11	ELECT	4.7uF	20%	50V	
C1202	1-162-292-31	CERAMIC	680PF	10%	50V	
C1203	1-162-286-31	CERAMIC	220PF	10%	50V	
C1204	1-126-967-11	ELECT	47uF	20%	50V	
C1205	1-126-967-11	ELECT	47uF	20%	50V	
C1206	1-128-576-11	ELECT	100uF	20%	63V	(EXCEPT AEP,G,IT,UK,CIS,EE)
C1206	1-126-968-11	ELECT	100uF	20%	50V	(AEP,G,IT,UK,CIS,EE)
C1207	1-164-159-11	CERAMIC	0.1uF		50V	
C1208	1-128-551-11	ELECT	22uF	20%	63V	(EXCEPT AEP,G,IT,UK,CIS,EE)
C1208	1-126-965-11	ELECT	22uF	20%	50V	(AEP,G,IT,UK,CIS,EE)
C1210	1-136-165-00	FILM	0.1uF	5%	50V	
C1211	1-136-165-00	FILM	0.1uF	5%	50V	
C1220	1-124-635-00	ELECT	220uF	20%	6.3V	
C1230	1-104-482-11	ELECT	4700uF	20%	63V	(EXCEPT AEP,G,IT,UK,CIS,EE)
C1230	1-126-974-11	ELECT	3300uF	20%	50V	(AEP,G,IT,UK,CIS,EE)
C1231	1-124-635-00	ELECT	220uF	20%	6.3V	
C1232	1-124-635-00	ELECT	220uF	20%	6.3V	
C1233	1-126-963-11	ELECT	4.7uF	20%	50V	
C1234	1-126-933-11	ELECT	100uF	20%	10V	
C1235	1-104-482-11	ELECT	4700uF	20%	63V	(EXCEPT AEP,G,IT,UK,CIS,EE)
C1235	1-126-974-11	ELECT	3300uF	20%	50V	(AEP,G,IT,UK,CIS,EE)
C1251	1-126-963-11	ELECT	4.7uF	20%	50V	

POWER

Ref. No.	Part No.	Description	Remark
C1252	1-162-292-31	CERAMIC	680PF 10% 50V
C1253	1-162-286-31	CERAMIC	220PF 10% 50V
C1254	1-126-967-11	ELECT	47uF 20% 50V
C1255	1-126-967-11	ELECT	47uF 20% 50V
C1256	1-128-576-11	ELECT	100uF 20% 63V (EXCEPT AEP,G,IT,UK,CIS,EE)
C1256	1-126-968-11	ELECT	100uF 20% 50V (AEP,G,IT,UK,CIS,EE)
C1260	1-136-165-00	FILM	0.1uF 5% 50V
C1261	1-136-165-00	FILM	0.1uF 5% 50V
C1270	1-130-781-00	FILM	0.22uF 10% 100V (EXCEPT AEP,G,IT,UK,CIS,EE)
C1270	1-136-169-00	FILM	0.22uF 5% 50V (AEP,G,IT,UK,CIS,EE)
C1271	1-130-781-00	FILM	0.22uF 10% 100V (EXCEPT AEP,G,IT,UK,CIS,EE)
C1271	1-136-169-00	FILM	0.22uF 5% 50V (AEP,G,IT,UK,CIS,EE)
C1272	1-136-165-00	FILM	0.1uF 5% 50V (AEP,G,IT,UK,CIS,EE)
C1273	1-136-165-00	FILM	0.1uF 5% 50V (AEP,G,IT,UK,CIS,EE)
C1276	1-136-165-00	FILM	0.1uF 5% 50V (AEP,G,IT,UK,CIS,EE)
C1277	1-136-165-00	FILM	0.1uF 5% 50V (AEP,G,IT,UK,CIS,EE)
< CONNECTOR >			
* CN1201	1-766-957-11	CONNECTOR, BOARD TO BOARD 20P	
* CN1202	1-568-937-11	PIN, CONNECTOR 10P	
* CN1203	1-564-512-11	PLUG, CONNECTOR 9P	
< DIODE >			
D1201	8-719-815-85	DIODE 1S1585 (EXCEPT AEP,G,IT,UK,CIS,EE)	
D1201	8-719-987-63	DIODE 1N4148M (AEP,G,IT,UK,CIS,EE)	
D1202	8-719-987-63	DIODE 1N4148M	
D1203	8-719-987-63	DIODE 1N4148M	
D1230	8-719-987-63	DIODE 1N4148M	
D1231	8-719-987-63	DIODE 1N4148M	
D1232	8-719-987-63	DIODE 1N4148M	
D1240	8-719-987-63	DIODE 1N4148M	
D1250	8-719-510-68	DIODE D5SBA20F01 (EXCEPT AEP,G,IT,UK,CIS,EE)	
D1250	8-719-025-03	DIODE RBA-402-SL (AEP,G,IT,UK,CIS,EE)	
D1251	8-719-815-85	DIODE 1S1585 (EXCEPT AEP,G,IT,UK,CIS,EE)	
D1251	8-719-987-63	DIODE 1N4148M (AEP,G,IT,UK,CIS,EE)	
D1270	8-719-987-63	DIODE 1N4148M	
D1271	8-719-987-63	DIODE 1N4148M	
D1272	8-719-987-63	DIODE 1N4148M	
D1290	8-719-815-85	DIODE 1S1585 (EXCEPT AEP,G,IT,UK,CIS,EE)	
D1291	8-719-815-85	DIODE 1S1585 (EXCEPT AEP,G,IT,UK,CIS,EE)	
< TERMINAL BOARD >			
EPT1201	1-537-770-21	TERMINAL BOARD, GROUND	

Ref. No.	Part No.	Description	Remark
< IC >			
IC1201	8-749-900-78	IC STK4192MK2 (AR,AUS,EA,SP,MY,MX,JE,HK,E,TW,TH)	
IC1201	8-749-921-68	IC STK4231MK2 (US,CND)	
IC1201	8-749-920-10	IC STK4172MK2 (AEP,G,IT,UK,CIS,EE)	
IC1201	8-759-502-31	IC SI-18751 (IA)	
IC1202	8-759-111-68	IC uPC1237HA	
< JACK >			
J1201	1-774-785-11	JACK, PIN 1P (SUPER WOOFER) (EXCEPT H881D)	
< COIL >			
L1201	1-420-872-00	COIL, AIR-CORE (AEP,G,IT,UK,CIS,EE)	
L1202	1-420-872-00	COIL, AIR-CORE (AEP,G,IT,UK,CIS,EE)	
< TRANSISTOR >			
Q1201	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q1210	8-729-900-36	TRANSISTOR DTC124ES	
Q1230	8-729-900-36	TRANSISTOR DTC124ES	
Q1240	8-729-900-63	TRANSISTOR DTA124ES	
Q1241	8-729-900-36	TRANSISTOR DTC124ES (EXCEPT AEP,G,IT,UK,CIS,EE)	
Q1242	8-729-119-78	TRANSISTOR 2SC2785-HFE (EXCEPT AEP,G,IT,UK,CIS,EE)	
Q1251	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q1270	8-729-119-78	TRANSISTOR 2SC2785-HFE(US,CND)	
Q1270	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA (EXCEPT US,CND)	
Q1271	8-729-119-78	TRANSISTOR 2SC2785-HFE(US,CND)	
Q1271	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA (EXCEPT US,CND)	
< RESISTOR >			
R1201	1-249-415-11	CARBON 680 5% 1/4W	
R1202	1-249-437-11	CARBON 47K 5% 1/4W	
R1203	1-249-415-11	CARBON 680 5% 1/4W	
R1204	1-249-437-11	CARBON 47K 5% 1/4W	
R1206	1-260-105-11	CARBON 3.3K 5% 1/2W (EXCEPT US,CND)	
R1206	1-260-107-11	CARBON 4.7K 5% 1/2W (US,CND)	
R1208	1-260-105-11	CARBON 3.3K 5% 1/2W (EXCEPT US,CND)	
R1208	1-260-107-11	CARBON 4.7K 5% 1/2W (US,CND)	
△ R1209	1-212-881-11	FUSIBLE 100 5% 1/4W F	
△ R1210	1-208-601-11	WIREWOUND 0.1 10% 2W F (EXCEPT AEP,G,IT,UK,CIS,EE)	
△ R1210	1-208-602-11	WIREWOUND 0.22 10% 2W F (AEP,G,IT,UK,CIS,EE)	
R1211	1-249-417-11	CARBON 1K 5% 1/4W	
R1212	1-249-433-11	CARBON 22K 5% 1/4W (EXCEPT AEP,G,IT,UK,CIS,EE)	
R1212	1-249-431-11	CARBON 15K 5% 1/4W (AEP,G,IT,UK,CIS,EE)	

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

POWER

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R1213	1-249-441-11	CARBON	100K 5% 1/4W	R1263	1-249-441-11	CARBON	100K 5% 1/4W
R1215	1-260-099-11	CARBON	1K 5% 1/2W	R1268	1-260-076-11	CARBON	10 5% 1/2W
R1216	1-260-099-11	CARBON	1K 5% 1/2W	R1270	1-249-425-11	CARBON	4.7K 5% 1/4W
R1218	1-260-076-11	CARBON	10 5% 1/2W	R1271	1-249-425-11	CARBON	4.7K 5% 1/4W
R1227	1-249-417-11	CARBON	1K 5% 1/4W	R1272	1-260-093-11	CARBON	330 5% 1/2W
R1228	1-247-883-00	CARBON	150K 5% 1/4W (EXCEPT AEP,G,IT,UK,CIS,EE)	R1273	1-260-093-11	CARBON	330 5% 1/2W
R1228	1-249-441-11	CARBON	100K 5% 1/4W (AEP,G,IT,UK,CIS,EE)	R1274	1-260-093-11	CARBON	330 5% 1/2W
R1230	1-249-429-11	CARBON	10K 5% 1/4W	R1275	1-260-093-11	CARBON	330 5% 1/2W
R1231	1-249-429-11	CARBON	10K 5% 1/4W	R1276	1-260-076-11	CARBON	10 5% 1/2W (AEP,G,IT,UK,CIS,EE)
R1232	1-249-441-11	CARBON	100K 5% 1/4W	R1277	1-260-076-11	CARBON	10 5% 1/2W (AEP,G,IT,UK,CIS,EE)
R1233	1-249-435-11	CARBON	33K 5% 1/4W	R1278	1-260-072-11	CARBON	4.7 5% 1/2W (AEP,G,IT,UK,CIS,EE)
R1234	1-249-397-11	CARBON	22 5% 1/4W	R1279	1-260-072-11	CARBON	4.7 5% 1/2W (AEP,G,IT,UK,CIS,EE)
R1235	1-249-427-11	CARBON	6.8K 5% 1/4W (EXCEPT US,CND)	R1280	1-215-892-11	METAL OXIDE	1K 5% 2W F (AR,AUS,EA,TH,SP,TW,MY,MX,JE,HK,E,IA)
R1235	1-247-854-11	CARBON	9.1K 5% 1/4W (US,CND)	R1280	1-215-891-11	METAL OXIDE	680 5% 2W F (US,CND)
R1236	1-249-427-11	CARBON	6.8K 5% 1/4W (EXCEPT US,CND)	R1280	1-216-456-00	METAL OXIDE	820 5% 2W F (AEP,G,IT,UK,CIS,EE)
R1236	1-247-854-11	CARBON	9.1K 5% 1/4W (US,CND)	R1281	1-215-892-11	METAL OXIDE	1K 5% 2W F (AR,AUS,EA,TH,SP,TW,MY,MX,JE,HK,E,IA)
R1237	1-249-437-11	CARBON	47K 5% 1/4W	R1281	1-215-891-11	METAL OXIDE	680 5% 2W F (US,CND)
R1238	1-249-439-11	CARBON	68K 5% 1/4W	R1281	1-216-456-00	METAL OXIDE	820 5% 2W F (AEP,G,IT,UK,CIS,EE)
R1239	1-249-429-11	CARBON	10K 5% 1/4W	R1282	1-249-429-11	CARBON	10K 5% 1/4W
R1240	1-249-429-11	CARBON	10K 5% 1/4W	R1283	1-249-441-11	CARBON	100K 5% 1/4W
R1242	1-249-429-11	CARBON	10K 5% 1/4W	R1284	1-215-892-11	METAL OXIDE	1K 5% 2W F (AR,AUS,EA,TH,SP,TW,MY,MX,JE,HK,E,IA)
R1243	1-249-397-11	CARBON	22 5% 1/4W	R1284	1-215-893-11	METAL OXIDE	1.5K 5% 2W F (US,CND)
△ R1244	1-217-637-00	FUSIBLE	1 5% 1/4W F	R1284	1-216-456-00	METAL OXIDE	820 5% 2W F (AEP,G,IT,UK,CIS,EE)
R1245	1-249-441-11	CARBON	100K 5% 1/4W (EXCEPT AEP,G,IT,UK,CIS,EE)	R1285	1-249-413-11	CARBON	470 5% 1/4W
R1246	1-249-441-11	CARBON	100K 5% 1/4W (EXCEPT AEP,G,IT,UK,CIS,EE)	R1290	1-249-437-11	CARBON	47K 5% 1/4W (EXCEPT H881D)
R1247	1-249-435-11	CARBON	33K 5% 1/4W (EXCEPT AEP,G,IT,UK,CIS,EE)	R1291	1-249-421-11	CARBON	2.2K 5% 1/4W (EXCEPT H881D)
R1248	1-249-429-11	CARBON	10K 5% 1/4W	R1293	1-249-437-11	CARBON	47K 5% 1/4W (EXCEPT H881D)
R1249	1-249-441-11	CARBON	100K 5% 1/4W	R1294	1-249-437-11	CARBON	47K 5% 1/4W (EXCEPT AEP,G,IT,UK,CIS,EE)
R1251	1-249-415-11	CARBON	680 5% 1/4W	R1295	1-249-437-11	CARBON	47K 5% 1/4W (EXCEPT AEP,G,IT,UK,CIS,EE)
R1252	1-249-437-11	CARBON	47K 5% 1/4W			< RELAY >	
R1253	1-249-415-11	CARBON	680 5% 1/4W	RY1201	1-515-920-11	RELAY (24V) (EXCEPT US,CND)	
R1254	1-249-437-11	CARBON	47K 5% 1/4W	RY1201	1-515-356-00	RELAY (US,CND)	
R1256	1-260-105-11	CARBON	3.3K 5% 1/2W (EXCEPT US,CND)	RY1202	1-515-920-11	RELAY (24V) (EXCEPT US,CND)	
R1256	1-260-107-11	CARBON	4.7K 5% 1/2W (US,CND)	RY1202	1-515-356-00	RELAY (US,CND)	
R1258	1-260-105-11	CARBON	3.3K 5% 1/2W (EXCEPT US,CND)	RY1203	1-515-920-11	RELAY (24V)	
R1258	1-260-107-11	CARBON	4.7K 5% 1/2W (US,CND)			< THERMISTOR (POSITIVE) >	
△ R1259	1-212-881-11	FUSIBLE	100 5% 1/4W F	THP12011-807-796-11		THERMISTOR (EXCEPT AEP,UK,G,IT,CIS,EE,IA)	
△ R1260	1-208-601-11	WIREWOUND	0.1 10% 2W F (EXCEPT AEP,G,IT,UK,CIS,EE)				
△ R1260	1-208-602-11	WIREWOUND	0.22 10% 2W F (AEP,G,IT,UK,CIS,EE)				
R1261	1-249-417-11	CARBON	1K 5% 1/4W				
R1262	1-249-433-11	CARBON	22K 5% 1/4W (EXCEPT AEP,G,IT,UK,CIS,EE)				
R1262	1-249-431-11	CARBON	15K 5% 1/4W (AEP,G,IT,UK,CIS,EE)				

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POWER

SENSOR

TCB (AEP,UK,G,IT,EE,CIS,E3,
EA,MY,SP,TW,HK,JE,IA)

Ref. No.	Part No.	Description	Remark			
< TERMINAL >						
TM1201	1-537-925-31	TERMINAL BOARD (SPEAKER)				
TM1202	1-537-925-31	TERMINAL BOARD (SURROUND SPEAKER)				

*	1-658-576-12	SENSOR BOARD				

< IC >						
IC702	8-749-924-18	IC PHOTO INTERRUPTER	RPI-1391			
IC703	8-749-924-30	IC PHOTO REFLECTOR	GP2S28			
< RESISTOR >						
R701	1-249-416-11	CARBON	820	5%	1/4W	
R702	1-249-407-11	CARBON	150	5%	1/4W	

*	A-4303-514-A	TCB BOARD, COMPLETE (AEP,UK)				
*	A-4303-515-A	TCB BOARD, COMPLETE (G,IT)				
*	A-4303-516-A	TCB BOARD, COMPLETE (EE)				
*	A-4303-517-A	TCB BOARD, COMPLETE (CIS)				
*	A-4303-518-A	TCB BOARD, COMPLETE				
(E3,EA,MY,SP,TW,HK,JE,IA)						

< CAPACITOR >						
C1	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C2	1-126-967-11	ELECT	47uF	20%	16V	
C3	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C5	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C6	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C7	1-101-004-00	CERAMIC	0.01uF		50V	
(EXCEPT AEP,UK,G,IT)						
C8	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C9	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C10	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C11	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
(EXCEPT AEP,UK,G,IT,EE)						
C11	1-216-295-11	METAL CHIP	0	5%	1/10W	
(G,IT)						
C14	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
(EXCEPT AEP,UK,G,IT,EE)						
C15	1-136-162-00	CERAMIC	0.056uF		50V	
(EXCEPT AEP,UK,G,IT,EE)						
C16	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C17	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
(EXCEPT AEP,UK,G,IT,EE)						
C18	1-163-088-00	CERAMIC CHIP	5PF		50V	
(EXCEPT AEP,UK,G,IT,EE)						
C19	1-163-249-11	CERAMIC CHIP	82PF	5%	50V	
(AEP,UK,EE)						
C21	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C22	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C23	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C24	1-163-239-11	CERAMIC CHIP	33PF	5%	50V	
C26	1-126-967-11	ELECT	47uF	20%	16V	

Ref. No.	Part No.	Description	Remark			
C28	1-126-967-11	ELECT	47uF	20%	16V	
C29	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C30	1-124-925-11	ELECT	2.2uF	20%	100V	
C31	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C32	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C33	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C34	1-163-091-00	CERAMIC CHIP	8PF		50V	(EXCEPT AEP,UK,EE)
C34	1-163-229-11	CERAMIC CHIP	12PF	5%	50V	(AEP,UK,EE)
C35	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C36	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C37	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C38	1-162-211-31	CERAMIC	33PF	5%	50V	(EXCEPT AEP,UK,G,IT,EE)
C39	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C40	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C41	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C42	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C43	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C44	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C45	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C46	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V	
C47	1-126-967-11	ELECT	47uF	20%	16V	
C48	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C49	1-124-902-00	ELECT	0.47uF	20%	50V	
C50	1-124-903-11	ELECT	1.0uF	20%	50V	
C51	1-124-903-11	ELECT	1.0uF	20%	50V	
C52	1-126-964-11	ELECT	10uF	20%	50V	
C53	1-126-964-11	ELECT	10uF	20%	50V	
C54	1-126-157-11	ELECT	10uF	20%	16V	
C55	1-126-157-11	ELECT	10uF	20%	16V	
C56	1-126-157-11	ELECT	10uF	20%	16V	
C57	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C58	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C59	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	(AEP,UK,IT,G)
C59	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V	(EXCEPT AEP,UK,IT,G)
C60	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	(AEP,UK,IT,G)
C60	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V	(EXCEPT AEP,UK,IT,G)
C61	1-126-301-11	ELECT	1uF	20%	50V	
C62	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C63	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C64	1-126-967-11	ELECT	47uF	20%	16V	
C65	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C66	1-126-162-11	ELECT	3.3uF	20%	50V	
C67	1-126-933-11	ELECT	100uF	20%	10V	
C68	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C69	1-126-964-11	ELECT	10uF	20%	50V	(CIS)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C70	1-126-964-11	ELECT	10uF 20% 50V (CIS)	JR6	1-216-295-11	METAL CHIP	0 5% 1/10W (AEP,UK,IT,G)
C71	1-162-306-11	CERAMIC	0.01uF 30% 16V	JR7	1-216-295-11	METAL CHIP	0 5% 1/10W (G,IT)
C72	1-126-967-11	ELECT	47uF 20% 16V	JR8	1-216-295-11	METAL CHIP	0 5% 1/10W (AEP,UK,EE)
C120	1-163-105-00	CERAMIC CHIP	33PF 5% 50V (AEP,UK,IT,G)	JR9	1-216-295-11	METAL CHIP	0 5% 1/10W (AEP,UK,EE)
< FILTER >				JR45	1-216-295-11	METAL CHIP	0 5% 1/10W
CF1	1-567-389-11	FILTER, CERAMIC (EXCEPT AEP,UK,G,IT)		JR46	1-216-296-11	METAL CHIP	0 5% 1/8W
CF1	1-579-374-71	FILTER, CERAMIC (AEP,UK,G,IT)		JR47	1-216-295-11	METAL CHIP	0 5% 1/10W
CF2	1-760-393-11	FILTER, CERAMIC (AEP,UK,G,IT)		JR48	1-216-295-11	METAL CHIP	0 5% 1/10W
CF3	1-567-389-11	FILTER, CERAMIC (EXCEPT AEP,UK,G,IT)		JR49	1-216-296-11	METAL CHIP	0 5% 1/8W
CF3	1-760-393-11	FILTER, CERAMIC (AEP,UK,G,IT)		JR50	1-216-295-11	METAL CHIP	0 5% 1/10W (EXCEPT AEP,UK,G,IT,EE)
< CONNECTOR >				JR51	1-216-295-11	METAL CHIP	0 5% 1/10W (EXCEPT G,IT)
* CN1	1-568-834-11	SOCKET, CONNECTOR 15P		JR52	1-216-295-11	METAL CHIP	0 5% 1/10W
* CN2	1-568-832-11	SOCKET, CONNECTOR 13P (CIS)		JR53	1-216-296-11	METAL CHIP	0 5% 1/8W (EXCEPT G,IT)
< TRIMMER >				JR54	1-216-295-11	METAL CHIP	0 5% 1/10W
CV1	1-141-227-00	TRIMMER (EXCEPT AEP,UK,G,IT,EE)		JW4	1-249-413-11	CARBON	470 5% 1/4W (AEP,UK,IT,G)
CV2	1-141-227-00	TRIMMER (EXCEPT AEP,UK,G,IT,EE)		JW5	1-249-413-11	CARBON	470 5% 1/4W (AEP,UK,IT,G)
< DIODE >				< COIL >			
D1	8-719-976-30	DIODE KV1560N (EXCEPT AEP,UK,G,IT,EE)		L1	1-410-521-11	MICRO INDUCTOR 100uH	(EXCEPT AEP,UK,G,IT,EE)
D21	8-719-976-99	DIODE UDZ-TE-17-5.1B		L2	1-414-142-11	MICRO INDUCTOR 1uH (AEP,UK,IT,G)	
D41	8-719-016-74	DIODE 1SS352-TPH3		L3	1-410-521-11	MICRO INDUCTOR 100uH	
D42	8-719-987-63	DIODE 1N4148M-TP (CIS)		L4	1-410-515-11	INDUCTOR 33uH (AEP,UK,G,IT)	
D43	8-719-987-63	DIODE 1N4148M-TP (CIS)		L41	1-407-500-00	MICRO INDUCTOR 4.7mH (AEP,UK,EE)	
< FRONT END >				L41	1-410-119-11	MICRO INDUCTOR (EL TYPE) 1mH	(EXCEPT AEP,UK,EE)
FE1	1-233-532-11	FRONT END (E3,EA,MY,SP,HK,JE,IA)		< FILTER >			
FE1	1-233-542-11	FRONT END (4 GAND) (AEP,UK,IT,G)		LPF41	1-239-845-11	FILTER, LOW PASS	
FE1	1-693-335-11	FRONT END (3 GAND) (EE,CIS)		LPF42	1-239-845-11	FILTER, LOW PASS	
FE2	1-233-514-11	ENCAPSULATED COMPONENT (AEP,UK,EE)		< TRANSISTOR >			
FE2	1-239-260-11	ENCAPSULATED COMPONENT (G,IT)		Q1	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L	
FE2	1-239-262-11	ENCAPSULATED COMPONENT (EXCEPT AEP,UK,G,IT,EE)		Q2	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L	
< IC >				Q3	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L	
IC21	8-759-288-54	IC LC72130		Q4	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L	
IC41	8-759-176-03	IC LA1835		Q5	8-729-424-08	TRANSISTOR MUN2111T1	
< IFT >				Q8	8-729-033-67	TRANSISTOR 2SK211-Y-TE85L	(EXCEPT AEP,UK,G,IT,EE)
IFT41	1-409-636-11	TRANSFORMER, IF (CERAMIC FILTER)		Q9	8-729-216-22	TRANSISTOR 2SA812-M5M6 (EXCEPT G,IT)	
< JUMPER RESISTOR >				Q10	8-729-216-22	TRANSISTOR 2SA812-M5M6	(EXCEPT AEP,UK,G,IT,EE)
JR1	1-216-295-11	METAL CHIP	0 5% 1/10W (G,IT)	Q11	8-729-421-22	TRANSISTOR MUN2211T1 (AEP,UK,EE)	
JR2	1-216-295-11	METAL CHIP	0 5% 1/10W (AEP,UK,EE)	Q12	8-729-421-22	TRANSISTOR MUN2211T1 (EXCEPT G,IT)	
JR3	1-216-295-11	METAL CHIP	0 5% 1/10W (G,IT)	Q13	8-729-421-22	TRANSISTOR MUN2211T1 (EXCEPT G,IT)	
				Q14	8-729-421-22	TRANSISTOR MUN2211T1 (EXCEPT G,IT)	

TCB (AEP,UK,G,IT,EE,CIS,E3,
EA,MY,SP,TW,HK,JE,IA)TCB (US,CND,E2,AUS,
AR,MX,TH)

Ref. No.	Part No.	Description	Remark		
< RESISTOR >					
R1	1-249-401-11	CARBON	47	5%	1/4W
R2	1-216-037-00	METAL CHIP	330	5%	1/10W
R3	1-216-037-00	METAL CHIP	330	5%	1/10W
R5	1-216-037-00	METAL CHIP	330	5%	1/10W
R6	1-216-081-00	METAL CHIP	22K	5%	1/10W
R7	1-216-037-00	METAL CHIP	330	5%	1/10W
R8	1-216-037-00	METAL CHIP	330	5%	1/10W
R9	1-216-081-00	METAL CHIP	22K	5%	1/10W
R10	1-216-037-00	METAL CHIP	330	5%	1/10W
R11	1-216-081-00	METAL CHIP	22K	5%	1/10W
R12	1-216-037-00	METAL CHIP	330	5%	1/10W
R13	1-216-037-00	METAL CHIP	330	5%	1/10W
R14	1-216-081-00	METAL CHIP	22K	5%	1/10W
R18	1-216-073-00	METAL CHIP	10K	5%	1/10W (AEP,UK,EE)
R18	1-216-065-00	METAL CHIP	4.7K	5%	1/10W (EXCEPT AEP,UK,G,IT,EE)
R19	1-216-073-00	METAL CHIP	10K	5%	1/10W (EXCEPT G,IT)
R20	1-216-121-91	METAL CHIP	1M	5%	1/10W (EXCEPT AEP,UK,G,IT,EE)
R21	1-216-049-11	METAL CHIP	1.0K	5%	1/10W
R22	1-216-049-11	METAL CHIP	1.0K	5%	1/10W
R23	1-216-049-11	METAL CHIP	1.0K	5%	1/10W
R24	1-216-025-11	METAL CHIP	100	5%	1/10W
R25	1-249-417-11	CARBON	1K	5%	1/4W
R26	1-249-437-11	CARBON	47K	5%	1/4W
R27	1-249-429-11	CARBON	10K	5%	1/4W
R28	1-249-417-11	CARBON	1K	5%	1/4W
R29	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R30	1-216-186-00	METAL CHIP	330	5%	1/8W
R31	1-216-025-11	METAL CHIP	100	5%	1/10W
R32	1-249-425-11	CARBON	4.7K	5%	1/4W
R33	1-249-425-11	CARBON	4.7K	5%	1/4W
R34	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R35	1-216-214-00	METAL CHIP	4.7K	5%	1/8W
R36	1-216-025-11	METAL CHIP	100	5%	1/10W
R37	1-216-073-00	METAL CHIP	10K	5%	1/10W
R38	1-216-089-11	METAL CHIP	47K	5%	1/10W
R39	1-249-429-11	CARBON	10K	5%	1/4W
R42	1-216-073-00	METAL CHIP	10K	5%	1/10W
R43	1-216-042-00	METAL CHIP	510	5%	1/10W
R44	1-216-021-00	METAL CHIP	68	5%	1/10W
R45	1-249-423-11	CARBON	3.3K	5%	1/4W
R46	1-216-073-00	METAL CHIP	10K	5%	1/10W
R47	1-216-097-11	METAL CHIP	100K	5%	1/10W
R48	1-249-417-11	CARBON	1K	5%	1/4W (AEP,UK,G,IT,EE,CIS)
R48	1-249-423-11	CARBON	3.3K	5%	1/4W (EXCEPT AEP,UK,G,IT,EE,CIS)
R49	1-216-061-11	METAL CHIP	3.3K	5%	1/10W
R50	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R51	1-216-065-00	METAL CHIP	4.7K	5%	1/10W

Ref. No.	Part No.	Description	Remark		
R53	1-249-429-11	CARBON	10K	5%	1/4W
R54	1-216-162-00	METAL CHIP	33	5%	1/8W (EXCEPT G,IT)
R55	1-216-162-00	METAL CHIP	33	5%	1/8W
R56	1-249-393-11	CARBON	10	5%	1/4W
R91	1-216-295-11	METAL CHIP	0	5%	1/10W (AEP,UK,EE)
R91	1-216-065-00	METAL CHIP	4.7K	5%	1/10W (EXCEPT AEP,UK,G,IT,EE)
R92	1-216-073-00	METAL CHIP	10K	5%	1/10W (EXCEPT G,IT)
R93	1-216-073-00	METAL CHIP	10K	5%	1/10W (EXCEPT AEP,UK,G,IT,EE)
R94	1-216-073-00	METAL CHIP	10K	5%	1/10W (EXCEPT G,IT)
< VARIABLE RESISTOR >					
RV41	1-238-601-11	RES, ADJ, CARBON 22K (AM TUNING LEVEL)			
RV42	1-238-600-11	RES, ADJ, CARBON 10K (FM TUNING LEVEL)			
< COIL >					
T1	1-409-505-11	COIL (ANT.SW3) (EXCEPT AEP,UK,G,IT,EE)			
T2	1-402-960-11	COIL (OSC.SW3) (EXCEPT AEP,UK,G,IT,EE)			
< TERMINAL >					
TM1	1-537-238-11	TERMINAL BOARD (ANT) (ANTENNA) (E3,EA,MY,SP,TW,HK,JE,IA)			
TM1	1-537-488-11	TERMINAL BOARD (ANT) (ANTENNA) (AEP,UK,G,IT,EE,CIS)			
< VIBRATOR >					
X21	1-760-549-11	VIBRATOR, CRYSTAL (4.5MHz)			
X41	1-760-220-11	FILTER, CERAMIC (10.7MHz)			
X42	1-527-981-00	FILTER, CERAMIC (450KHz)			
X43	1-577-075-11	OSCILLATOR, CERAMIC (456KHz)			

*	A-4303-522-A	TCB BOARD, COMPLETE (US,CND)			
*	A-4303-524-A	TCB BOARD, COMPLETE (E2,AUS,AR,MX,TH)			

< CAPACITOR >					
C1	1-162-294-31	CERAMIC	0.001uF	10%	50V
C2	1-126-967-11	ELECT	47uF	20%	16V
C3	1-164-159-21	CERAMIC	0.1uF		50V
C5	1-162-306-11	CERAMIC	10000PF	10%	16V
C6	1-162-306-11	CERAMIC	10000PF	10%	16V
C7	1-101-004-00	CERAMIC	0.01uF		50V
C8	1-162-306-11	CERAMIC	10000PF	10%	16V
C9	1-162-306-11	CERAMIC	10000PF	10%	16V
C11	1-164-159-21	CERAMIC	0.1uF		50V
C12	1-162-198-31	CERAMIC	8.2PF	10%	50V
C14	1-162-306-11	CERAMIC	10000PF	10%	16V

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
C21	1-102-959-00	CERAMIC	22PF	5%	50V		CF2	1-567-389-11	FILTER, CERAMIC				
C21	1-102-960-00	CERAMIC	24PF		50V				< CONNECTOR >				
C22	1-164-159-21	CERAMIC	0.1uF		50V								
C23	1-162-306-11	CERAMIC	10000PF	30%	16V		* CN1	1-568-832-11	SOCKET, CONNECTOR 13P				
C24	1-126-967-11	ELECT	47uF	20%	16V				< DIODE >				
C25	1-162-306-11	CERAMIC	10000PF	30%	16V								
C26	1-126-964-11	ELECT	10uF	20%	50V		D1	8-719-933-33	DIODE UZL-6L1-TA				
C27	1-164-159-21	CERAMIC	0.1uF		50V		D2	8-719-987-63	DIODE 1N4148M-TA				
C28	1-124-925-11	ELECT	2.2uF	20%	100V				< FRONT END >				
C29	1-102-518-11	CERAMIC	33PF	5%	50V								
C30	1-162-294-31	CERAMIC	0.001uF	10%	50V		FE1	1-233-533-11	ENCAPSULATED COMPONENT				
C31	1-162-306-11	CERAMIC	10000PF	30%	16V		FE2	1-239-260-11	ENCAPSULATED COMPONENT				
C41	1-126-933-11	ELECT	100uF	20%	10V				< IC >				
C42	1-162-306-11	CERAMIC	10000PF	30%	16V								
C43	1-126-962-11	ELECT	3.3uF	20%	50V		IC1	8-759-288-54	IC LC72130				
C44	1-162-306-11	CERAMIC	10000PF	30%	16V		IC2	8-759-176-03	IC LA1835				
C45	1-124-589-11	ELECT	47uF	20%	16V				< IFT >				
C46	1-162-600-11	CERAMIC	4700PF	30%	16V								
C47	1-162-294-31	CERAMIC	0.001uF	10%	50V		IFT41	1-409-636-11	TRANSFORMER, IF (CERAMIC FILTER)				
C48	1-126-160-11	ELECT	1uF	20%	50V				< COIL >				
C49	1-136-159-00	METALIZED FILM 0.033uF		5%	50V	(EXCEPT US,CND)							
C49	1-136-160-00	METALIZED FILM 0.039uF		5%	50V	(US,CND)	L41	1-410-119-11	MICRO INDUCTOR (EL TYPE)				
C50	1-136-159-00	METALIZED FILM 0.033uF		5%	50V	(EXCEPT US,CND)			< FILTER >				
C50	1-136-160-00	METALIZED FILM 0.039uF		5%	50V	(US,CND)	LPF41	1-239-845-11	FILTER, LOW PASS				
C51	1-162-600-11	CERAMIC	4700PF	30%	16V		LPF42	1-239-845-11	FILTER, LOW PASS				
C52	1-162-600-11	CERAMIC	4700PF	30%	16V				< TRANSISTOR >				
C53	1-126-964-11	ELECT	10uF	20%	50V								
C54	1-126-157-11	ELECT	10uF	20%	16V		Q1	8-729-230-99	TRANSISTOR 2SC26690Y-TPE4				
C55	1-126-964-11	ELECT	10uF	20%	50V		Q2	8-729-230-99	TRANSISTOR 2SC26690Y-TPE4				
C56	1-126-964-11	ELECT	10uF	20%	50V		Q3	8-729-230-99	TRANSISTOR 2SC26690Y-TPE4				
C57	1-164-159-21	CERAMIC	0.1uF		50V		Q4	8-729-230-99	TRANSISTOR 2SC26690Y-TPE4				
C58	1-162-306-11	CERAMIC	10000PF	30%	16V		Q5	8-729-422-57	TRANSISTOR BN1A4M-TP				
C59	1-164-159-21	CERAMIC	0.1uF		50V				< RESISTOR >				
C61	1-164-159-21	CERAMIC	0.1uF		50V		R1	1-249-401-11	CARBON 47	5%	1/4W		
C62	1-126-967-11	ELECT	47uF	20%	16V		R2	1-249-411-11	CARBON 330	5%	1/4W		
C63	1-164-159-21	CERAMIC	0.1uF		50V		R3	1-249-411-11	CARBON 330	5%	1/4W		
C64	1-124-902-00	ELECT	0.47uF	20%	50V		R5	1-249-411-11	CARBON 330	5%	1/4W		
C65	1-124-903-11	ELECT	1.0uF	20%	50V		R6	1-247-863-91	CARBON 22K	5%	1/4W		
C66	1-124-903-11	ELECT	1.0uF	20%	50V								
C67	1-126-964-11	ELECT	10uF	20%	50V		R7	1-249-411-11	CARBON 330	5%	1/4W		
C68	1-162-306-11	CERAMIC	10000PF	30%	16V		R8	1-249-411-11	CARBON 330	5%	1/4W		
C69	1-162-306-11	CERAMIC	10000PF	30%	16V		R9	1-247-863-91	CARBON 22K	5%	1/4W		
C70	1-162-306-11	CERAMIC	10000PF	30%	16V		R10	1-249-411-11	CARBON 330	5%	1/4W		
C71	1-162-306-11	CERAMIC	10000PF	30%	16V		R11	1-247-863-91	CARBON 22K	5%	1/4W		
C73	1-162-306-11	CERAMIC	10000PF	30%	16V		R12	1-249-411-11	CARBON 330	5%	1/4W		
C74	1-126-964-11	ELECT	10uF	20%	50V		R13	1-249-411-11	CARBON 330	5%	1/4W		
		< FILTER >					R14	1-247-863-91	CARBON 22K	5%	1/4W		
CF1	1-567-389-11	FILTER, CERAMIC					R15	1-249-429-11	CARBON 10K	5%	1/4W		

Ref. No.	Part No.	Description	Remark
R16	1-249-437-11	CARBON 47K	5% 1/4W
R19	1-249-399-11	CARBON 33	5% 1/4W
R21	1-247-807-31	CARBON 100	5% 1/4W
R22	1-249-425-11	CARBON 4.7K	5% 1/4W
R23	1-249-425-11	CARBON 4.7K	5% 1/4W
R24	1-249-425-11	CARBON 4.7K	5% 1/4W
R25	1-247-807-31	CARBON 100	5% 1/4W
R26	1-249-411-11	CARBON 330	5% 1/4W
R27	1-249-425-11	CARBON 4.7K	5% 1/4W
R28	1-249-423-11	CARBON 3.3K	5% 1/4W
R29	1-249-417-11	CARBON 1K	5% 1/4W
R30	1-249-417-11	CARBON 1K	5% 1/4W
R31	1-249-417-11	CARBON 1K	5% 1/4W
R32	1-249-417-11	CARBON 1K	5% 1/4W
R33	1-247-807-31	CARBON 100	5% 1/4W
R34	1-249-429-11	CARBON 10K	5% 1/4W
R35	1-249-429-11	CARBON 10K	5% 1/4W
R36	1-249-437-11	CARBON 47K	5% 1/4W
R37	1-249-417-11	CARBON 1K	5% 1/4W
R41	1-249-429-11	CARBON 10K	5% 1/4W
R43	1-249-421-11	CARBON 2.2K	5% 1/4W
R44	1-249-421-11	CARBON 2.2K	5% 1/4W
R46	1-249-442-11	CARBON 510	5% 1/4W
R47	1-249-403-11	CARBON 68	5% 1/4W
R48	1-249-423-11	CARBON 3.3K	5% 1/4W
R49	1-249-393-11	CARBON 10	5% 1/4W
R50	1-249-429-11	CARBON 10K	5% 1/4W
R51	1-249-441-11	CARBON 100K	5% 1/4W
R52	1-249-429-11	CARBON 10K	5% 1/4W
R53	1-249-425-11	CARBON 4.7K	5% 1/4WF
R54	1-249-425-11	CARBON 4.7K	5% 1/4WF

< VARIABLE RESISTOR >

RV41	1-238-600-11	RES, ADJ, CARBON 10K (FM TUNING LEVEL)
RV42	1-238-601-11	RES, ADJ, CARBON 22K (AM TUNING LEVEL)

< TERMINAL >

TM1	1-537-238-21	TERMINAL BOARD (ANTENNA)
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< VIBRATOR >

X21	1-760-549-11	VIBRATOR, CRYSTAL (4.5MHz)
X41	1-577-075-11	OSCILLATOR, CERAMIC (456KHz)
X42	1-760-220-11	FILTER, CERAMIC (10.7MHz)
X43	1-527-981-00	FILTER, CERAMIC (450KHz)

* A-4389-030-A TC-SW BOARD, COMPLETE

< DIODE >

D523	8-719-032-87	LED SEL5420E-TP15 (< (DECK B))
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Ref. No.	Part No.	Description	Remark
D524	8-719-032-87	LED SEL5420E-TP15 (> (BECK B))	
D525	8-719-057-09	LED LNJ801LPDJA (● REC)	
D526	8-719-058-17	LED LNJ401NPYJA (■ PAUSE)	
D527	8-719-032-87	LED SEL5420E-TP15 (< (DECK A))	
D528	8-719-032-87	LED SEL5420E-TP15 (> (DECK A))	
< RESISTOR >			
R553	1-249-409-11	CARBON 220	5% 1/4W
R554	1-249-411-11	CARBON 330	5% 1/4W
R555	1-249-413-11	CARBON 470	5% 1/4W
R556	1-249-415-11	CARBON 680	5% 1/4W
R557	1-249-417-11	CARBON 1K	5% 1/4W
R558	1-249-419-11	CARBON 1.5K	5% 1/4W
R559	1-249-421-11	CARBON 2.2K	5% 1/4W
R560	1-249-423-11	CARBON 3.3K	5% 1/4W
R561	1-249-427-11	CARBON 6.8K	5% 1/4W
R562	1-249-431-11	CARBON 15K	5% 1/4W
R568	1-249-413-11	CARBON 470	5% 1/4W
R569	1-249-415-11	CARBON 680	5% 1/4W
R570	1-249-417-11	CARBON 1K	5% 1/4W
R571	1-249-419-11	CARBON 1.5K	5% 1/4W
R572	1-249-421-11	CARBON 2.2K	5% 1/4W
R573	1-249-423-11	CARBON 3.3K	5% 1/4W
R574	1-249-427-11	CARBON 6.8K	5% 1/4W
R610	1-247-807-31	CARBON 100	5% 1/4W
R611	1-247-807-31	CARBON 100	5% 1/4W
R612	1-249-407-11	CARBON 150	5% 1/4W
R613	1-249-407-11	CARBON 150	5% 1/4W
R614	1-247-807-31	CARBON 100	5% 1/4W
R615	1-247-807-31	CARBON 100	5% 1/4W

< SWITCH >

S536	1-554-303-21	SWITCH, TACTILE (> (DECK B))
S537	1-554-303-21	SWITCH, TACTILE (< (DECK B))
S538	1-554-303-21	SWITCH, TACTILE (▶▶)
S539	1-554-303-21	SWITCH, TACTILE (■)
S540	1-554-303-21	SWITCH, TACTILE (◀◀)
S541	1-554-303-21	SWITCH, TACTILE (■ PAUSE)
S542	1-554-303-21	SWITCH, TACTILE (● REC)
S543	1-554-303-21	SWITCH, TACTILE (KARAOKE PGM/MPX)
S544	1-554-303-21	SWITCH, TACTILE (CD SYNCHRO)
S545	1-554-303-21	SWITCH, TACTILE (HIGH SPEED DUBBING)
S554	1-554-303-21	SWITCH, TACTILE (DIRECTION)
S555	1-554-303-21	SWITCH, TACTILE (DOLBY NR)
S556	1-554-303-21	SWITCH, TACTILE (▶▶)
S557	1-554-303-21	SWITCH, TACTILE (■)
S558	1-554-303-21	SWITCH, TACTILE (◀◀)
S559	1-554-303-21	SWITCH, TACTILE (> (DECK A))
S560	1-554-303-21	SWITCH, TACTILE (< (DECK A))

TRANS

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	1-659-116-11	TRANS BOARD *****		△ 18	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (HK)	
		< HOLDER, FUSE >		68	1-773-157-11	WIRE (FLAT TYPE) (21 CORE)	
	1-533-217-31	HOLDER, FUSE		69	1-765-325-11	WIRE (FLAT TYPE) (11 CORE) (EXCEPT TH,EA4)	
		< CONNECTOR >		69	1-769-945-11	WIRE (FLAT TYPE) (11 CORE) (TH,EA4)	
				77	1-769-977-11	WIRE (FLAT TYPE) (13 CORE)	
				257	1-452-538--11	MAGNET	
				258	1-776-042-11	WIRE (FLAT TYPE) (8 CORE)	
CN1601	1-564-321-00	PIN, CONNECTOR 2P		266	1-776-442-11	WIRE (FLAT TYPE) (19 CORE) (EXCEPT TH)	
CN1602	1-564-524-11	PLUG, CONNECTOR 9P		△ 301	8-848-367-11	DEVICE, OPTICAL KSS-213BA/F-NP	
		< FUSE >		302	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
△ F1601	1-532-299-00	FUSE (T5AL,250V) (AEP,UK,G,IT,EE,CIS)		△ F1601	1-532-299-00	FUSE (T5AL,250V) (AEP,UK,G,IT,EE,CIS)	
△ F1602	1-532-299-00	FUSE (T5AL,250V) (AEP,UK,G,IT,EE,CIS)		△ F1602	1-532-299-00	FUSE (T5AL,250V) (AEP,UK,G,IT,EE,CIS)	
△ F1603	1-532-350-00	FUSE (T4AL,250V) (E,EA,SP,JE,HK,IA,MX)		△ F1603	1-532-350-00	FUSE, (T4AL,250V) (E,EA,SP,JE,HK,IA,MX)	
△ F1603	1-533-420-00	FUSE, GLASS TUBE (5A 125V) (US,CND)		△ F1604	1-532-203-00	FUSE, (T2AL,250V) (E,EA,JE,HK,AR,MY,AUS,TW)	
△ F1604	1-532-203-00	FUSE (T2AL,250V) (E,EA,JE,HK,AR,MY,AUS,TW)		FL501	1-517-483-11	INDICATOR TUBE, FLUORESCENT	
		< RESISTOR >		HP101	1-500-093-11	HEAD, MAGNETIC (PLAYBACK)	
△ R1600	1-202-725-00	SOLID 3.3M 10% 1/2W (US,CND)		HRPE1011	500-094-11	HEAD, MAGNETIC (REC/PB/ERASE)	
△ R1602	1-219-119-81	FUSIBLE 0.1 5% 1/4W F		M1	X-3371-223-1	MOTOR ASSY (CAPSTAN)	
△ R1603	1-219-139-11	FUSIBLE 0.68 5% 1/4W F		M2	A-2004-410-A	MOTOR ASSY, DC (TRIGGER)	
△ R1604	1-219-119-81	FUSIBLE 0.1 5% 1/4W F		M101	X-4917-523-4	BASE OUTSERT ASSY (SPINDLE)	
		< SWITCH >		M102	X-4917-504-1	MOTOR ASSY (SLED)	
△ VS1601	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR) (AR,EA,SP,TW,JE,HK,E,IA)		M701	A-4660-586-A	MOTOR ASSY (TURN)	
		< TRANSFORMER >		M801	A-4660-586-A	MOTOR ASSY (SLIDE)	
△ T1601	1-429-294-11	TRANSFORMER, POWER (US,CND)		S101	1-572-085-11	SWITCH, LEAF (LIMIT SW)	
△ T1601	1-429-296-11	TRANSFORMER, POWER (AEP,G,IT,UK,CIS,EE)		S851	1-473-335-11	ENCODER, ROTARY	
△ T1601	1-429-298-11	TRANSFORMER, POWER (AR,AUS,EA,TH,SP,TW,MY,MX,JE,HK,E)		△ T1601	1-429-294-11	TRANSFORMER, POWER	
△ T1601	1-429-299-11	TRANSFORMER, POWER (IA)		△ T1601	1-429-295-11	TRANSFORMER, POWER (US,CND:made in Indonesia)	
*****				△ T1601	1-429-296-11	TRANSFORMER, POWER (AEP,IT,G,UK,EE,CIS:made in Malaysia)	
		MISCELLANEOUS		△ T1601	1-429-297-11	TRANSFORMER, POWER (AEP,IT,G,UK,EE,CIS:made in Indonesia)	
		*****		△ T1601	1-429-298-11	TRANSFORMER, POWER (AR,AUS,EA3,E,HK,JE, MX,MY,SP,TW:made in Malaysia/TH,EA4 :made in Thailand)	
* 5	1-533-217-31	HOLDER, FUSE		△ T1601	1-429-299-11	TRANSFORMER, POWER (AR,AUS,E,HK,MX,SP,IA:made in Indonesia)	
8	1-751-086-11	WIRE (FLAT TYPE) (13 CORE) (US,CND,AR,AUS,E2,MX,TH,EA4)		*****			
8	1-773-012-11	WIRE (FLAT TYPE) (15 CORE) (AEP,IT,G, UK,CIS,EE,E3,JE,MX,MY,EA3,TW,SP,IA)				ACCESSORIES & PACKING MATERIALS	
△ 12	1-575-651-11	CORD, POWER (AR,AEP,G,IT,EA,CIS,SP,MY,HK,EE,TW)				*****	
△ 12	1-575-653-11	CORD, POWER (MX,JE,E,IA)		4-980-428-01		CUSHION (FRONT)	
△ 12	1-690-608-11	CORD, POWER (AUS)		4-980-429-01		CUSHION (REAR)	
△ 12	1-690-609-21	CORD, POWER (US,CND)		*****			
△ 12	1-751-520-21	CORD, POWER (UK)					
△ 12	1-751-326-31	CORD, POWER (TH)					
14	1-698-659-11	FAN, DC (EXCEPT AEP,G,IT,UK,CIS,EE)					
17	1-751-688-11	WIRE (FLAT TYPE) (13 CORE) (CIS)					
△ 18	1-569-007-11	ADAPTER, CONVERSION 2P (E,JE,IA)					
△ 18	1-569-008-11	ADAPTER, CONVERSION 2P (EA3,SP,TW)					

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>

HARDWARE LIST			

#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#2	7-682-548-04	SCREW +BVTT 3X8 (S)	
#3	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
#4	7-685-131-19	SCREW +BTP 2.6X4 TYPE2 N-S	
#5	7-621-775-00	SCREW +B 2.6X3	
#6	7-621-770-67	SCREW +BVTT 2.6X6 (S)	
#7	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
#8	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	
#9	7-621-775-10	SCREW +B 2.6X4	
#10	7-623-921-01	RING, RETAINING, CAPSTAN	
#11	7-621-255-15	SCREW +P 2X3	
#12	7-685-871-01	SCREW +BVTT 3X6 (S)	
